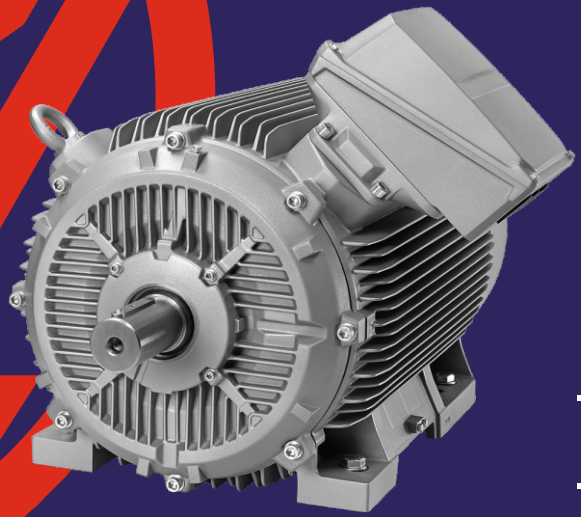
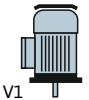
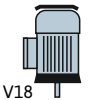
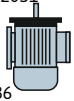
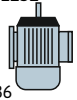
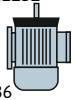
ELECTRIC MOTORS



MADE IN EUROPE

CATALOGUE Moteurs MEZ

POSITIONS DE MONTAGE

1. Chiffre	IM1... Montage pattes	IM2... Montage pattes & bride			IM3... Montage bride		
2. Chiffre	IM10	IM20	IM21	IM21	IM30	IM36	IM36
3. Chiffre							
0	IM1001  B3	IM2001  B3/B5	IM2101  B3/B14A	IM2101  B3/B14B	IM3001  B5	IM3601  B14A	IM3601  B14B
1	IM1011  V5	IM2011  V15	IM2111  V15	IM2111  V15	IM3011  V1	IM3611  V18	IM3611  V18
3	IM1031  V6	IM2031  V36	IM2131  V36	IM2131  V36	IM3031  V3	IM3631  V19	IM3631  V19
5	IM1051  B6	IM2051 	IM2151 	IM2151 			
6	IM1061  B7	IM2061 	IM2161 	IM2161 			
7	IM1071  B8	IM2071 	IM2171 	IM2171 			

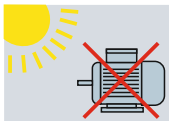
4. Chiffre

1: Arbre standard IEC
2: 2éme bout d'arbre
3: Arbre C.A. conique
4: Arbre(s) spéciale(s)

Moteurs montage vertical avec B.A vers le bas sont spécifiés comme suite.

Moteur sans capôt anti-pluie

Moteur avec capôt anti-pluie



Aucun moteur peut être exposé directement à la lumière du soleil.

La position de montage doit être mentionnée lors d'une commande d'un moteur électrique.
Le montage du moteur peut influencer la classe de protection et le roulement.

Pour des moteurs avec montage à bride il est necessaire de connaître le Ø entre-trous pour le montage de la bride (type de la bride FF où FT + plan d'encombrement M)

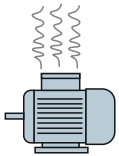
FF (trous lisses) – bride B5
FT (trous taraudés) brides B14A & B14B.

Le diamètre entre-trous (M) est spécifié standard.

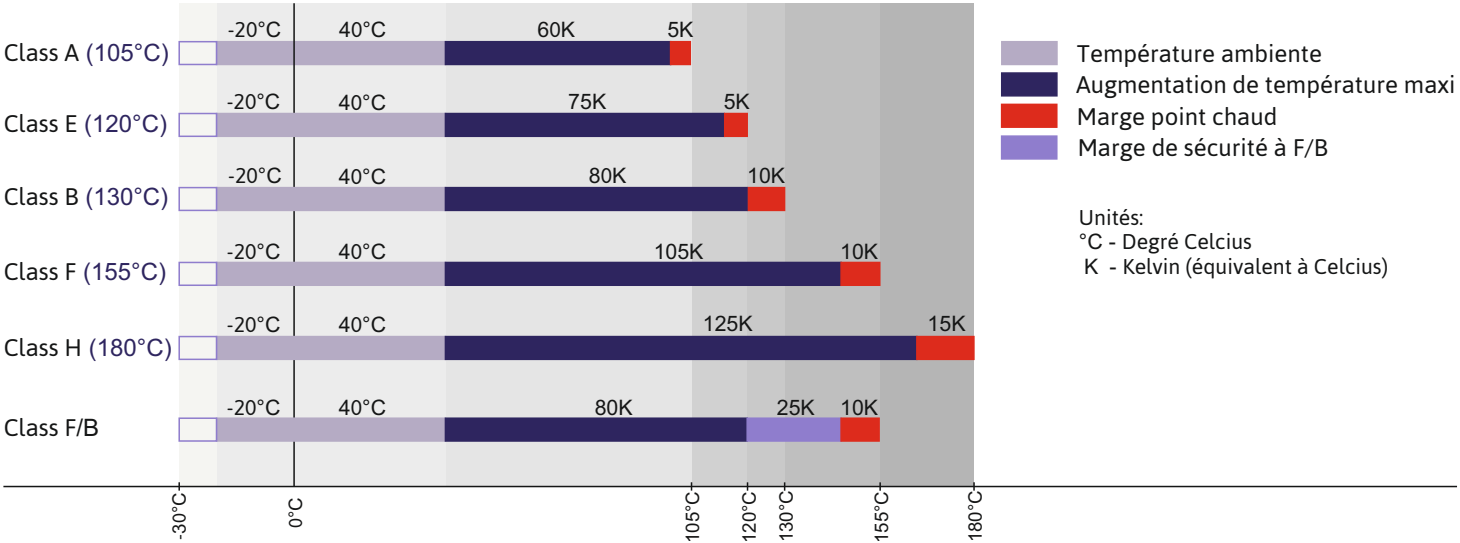
Raccourci des positions de montage:

IM B35	B3/B5
IM B34A	B3/B14A
IM B34B	B3/B14B

Plusieurs matériaux d'isolation sont utilisés dans les moteurs électriques, chacun ayant leur propre fonction.
- L'isolation des fils du bobinage
- Matériaux d'isolation des encoches et des phases entre le bobinage et le stator, et entre les phases entre-elles.
- L'imprégnation complète du bobinage.
- Gaines d'isolation des sorties de cable du bobinage.
- Isolation des sorties de câble (comprenant les connections entre le bobinage et la plaque à bornes)



Tous ses matériaux d'isolation sont divisés en classes, désignées par Y-A-E-B-F-H-C. Chaque classe a sa limite de température.Le matériel d'isolation d'une classe garde ses caractéristiques mécaniques et électriques à sa température limite.

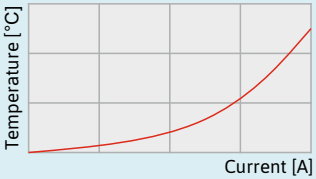


Ces limites de température sont utilisées comme base pour calculer l'augmentation de température maximum du bobinage.
Lorsqu'un moteur est en fonctionnement, la température du bobinage augmente, principalement en raison des pertes de cuivre et de fer dans le moteur.
Pour calculer l'augmentation de température, on utilise la méthode de mesurer la résistance qui augmente avec l'augmentation de température.
Les moteurs MEZ sont fabriqués de standard avec une classe d'isolation F et une augmentation de température B (Max 80K). Automatiquement une reserve de température de 25K est disponible dans cette execution. L'utilisateur peut utiliser cette reserve pour une application à une température ambiante plus haute(au dessus 40°C), pour des fluctuations de tension d'alimentation où fréquence, ...e.a.

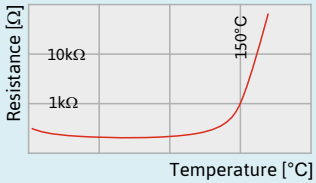
PROTECTION THERMIQUE

La protection thermique la plus habituelle qui protège les moteur électriques contre la surcharge.

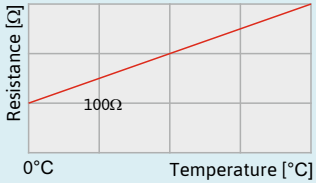
Débranche thermique (activation par le passage de courrant)
Cette protection est approprié pour des moteur relativement petit, car ces éléments sont limitées par le courant qui traverse. Ces éléments sont équipés par un intérupteur thermique (bi-métal) qui est activé par la chaleur causé par le courant qui traverse. Il existe des coupures thermiques qui redémarrent automatiquement quand le moteur refroidit, et il existe aussi le reset manuel pour plus de sécurité.



Thermistance CTP (Thermistance avec Coeff. Temp. Positive)
Nous pouvons utiliser des sondes thermiques CTP (résistance dépendant de la température) si nous voulons protégér le bobinage et intervenir uniquement quand la température maxi du bobinage est atteint. C'est une résistance qui à une valeur petite en état refroidit. La résistance ne dépand pas de la température et donc pas liniaire mais plustôt une courbe spécifique. Quand on utilise le CTP avec un relais dans le circuit auxiliaire du moteur, le moteur sera débranché quand la température maxi est atteint. Le CTP réagit uniquement sur la température du bobinage, indépendant du courant du moteur.

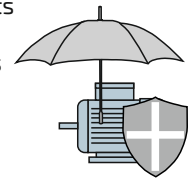


PT100 sont des RTD (Resistance Temperature Detector ou Détecteur de température par résistance)
C'est une sonde de température souvent utilisé dans le technique de mesurement. Sa conduite liniaire, longue durée de vie, funtionnement ponctuel et une connection facile, fait que le PT100 est souvent utilisé. Le rapport liniaire entre température et résistance est la grande différence avec le CTP. Le chiffre 100 nous indique la résistance électrique de 100 Ohm (+/- 0,1 Ohm) sur une sonde à 0°C.



L'utilisation de protection thermique est recommandée pour les applications avec variateurs de fréquence VSD (variable speed drives)
L'utilisation de thermistances est obligatoire pour des moteurs ATEX alimentés par des variateurs de fréquence.

Dépendant les conditions de travail et l'environement, il faut choisir un degré de protection adéquate pour éviter des dégâts à cause de la pénétration de corps solides, poussière et l'eau.
Le degré de protection est indiqué par une classe IP avec 2 chiffres clés qui correspondent respectivement aux protections contre les corps solides (poussière) et les corps liquides.(pas l'huile). Nos moteurs standards sont d'une protection IP55.

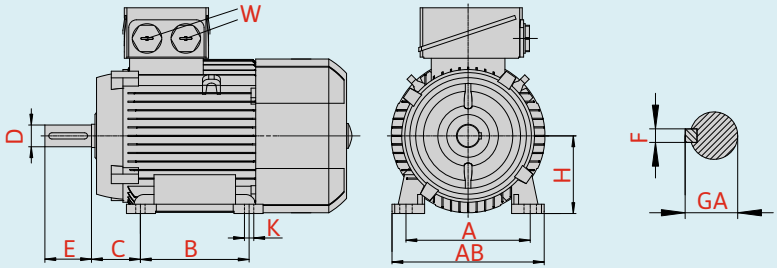


Premier chiffre = protection contre des corps solides.
Deuxième chiffre = Protection contre des liquides.

Le plus haute sont les chiffres, le plus haute est le degré de protection.

Protection contre les corps solides	Protection contre les liquides
0: Pas de protection	0: Pas de protection
1: Protège contre les corps solides sup. à 50mm	1: Protège contre les chutes verticales des gouttes d'eau.
2: Protège contre les corps solides sup. à 12 mm.	2: Protège contre les chutes verticales des gouttes d'eau.
3: Protège contre les corps solides sup. à 2,5 mm.	3: Protège contre les chutes de gouttes d'eau jusqu'à 60° de la verticale.
4: Protège contre les corps solides sup. à 1 mm.	4: Protège contre projections d'eau de toute direction.
5: Protège contre les poussières. Pas de dépôts nuisible.	5: Protège contre jets d'eau de toute direction à la lance.
6: Totalement protégé contre les poussières.	6: Protège contre forts jets d'eau de toute direction à la lance assimilables aux paquets de mer (ex montage sur le pont de bateau).
	7: Protège contre les effect de l'immersion temporaire.
	8: Protège contre les effect de l'immersion pendant longtemps.

B3

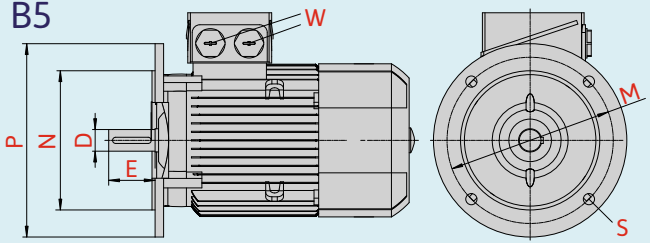


B3 - Montage à pattes

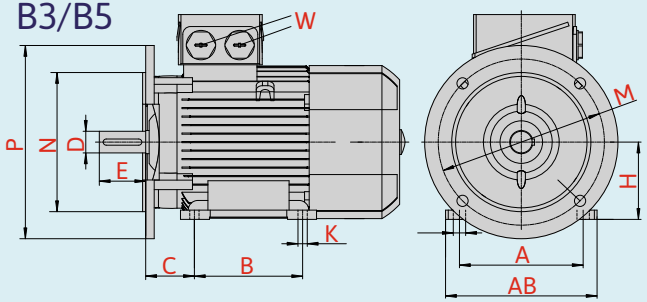
B5 - Montage à bride trous lisses
B14A - Montage à petite bride taraudé
B14B - Montage à grande bride taraudé

B3/B5 - Montage à pattes et bride
B3/B14A - Montage à pattes et bride
B3/B14B - Montage à pattes et bride

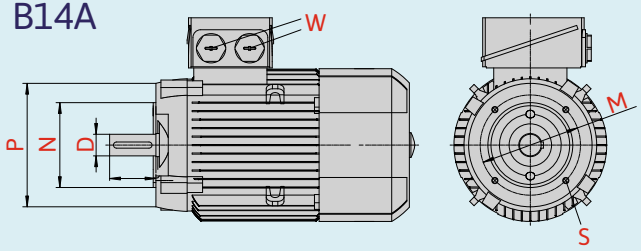
B5



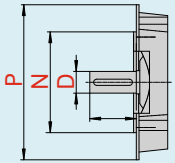
B3/B5



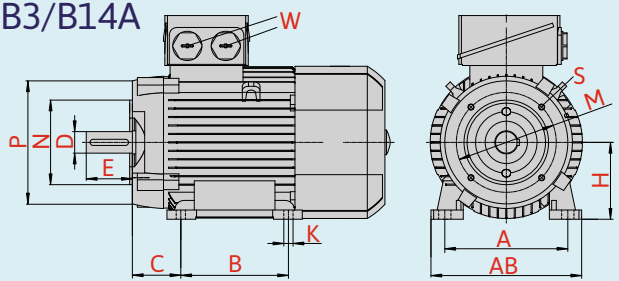
B14A



B14B

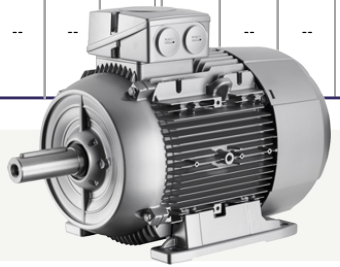


B3/B14A

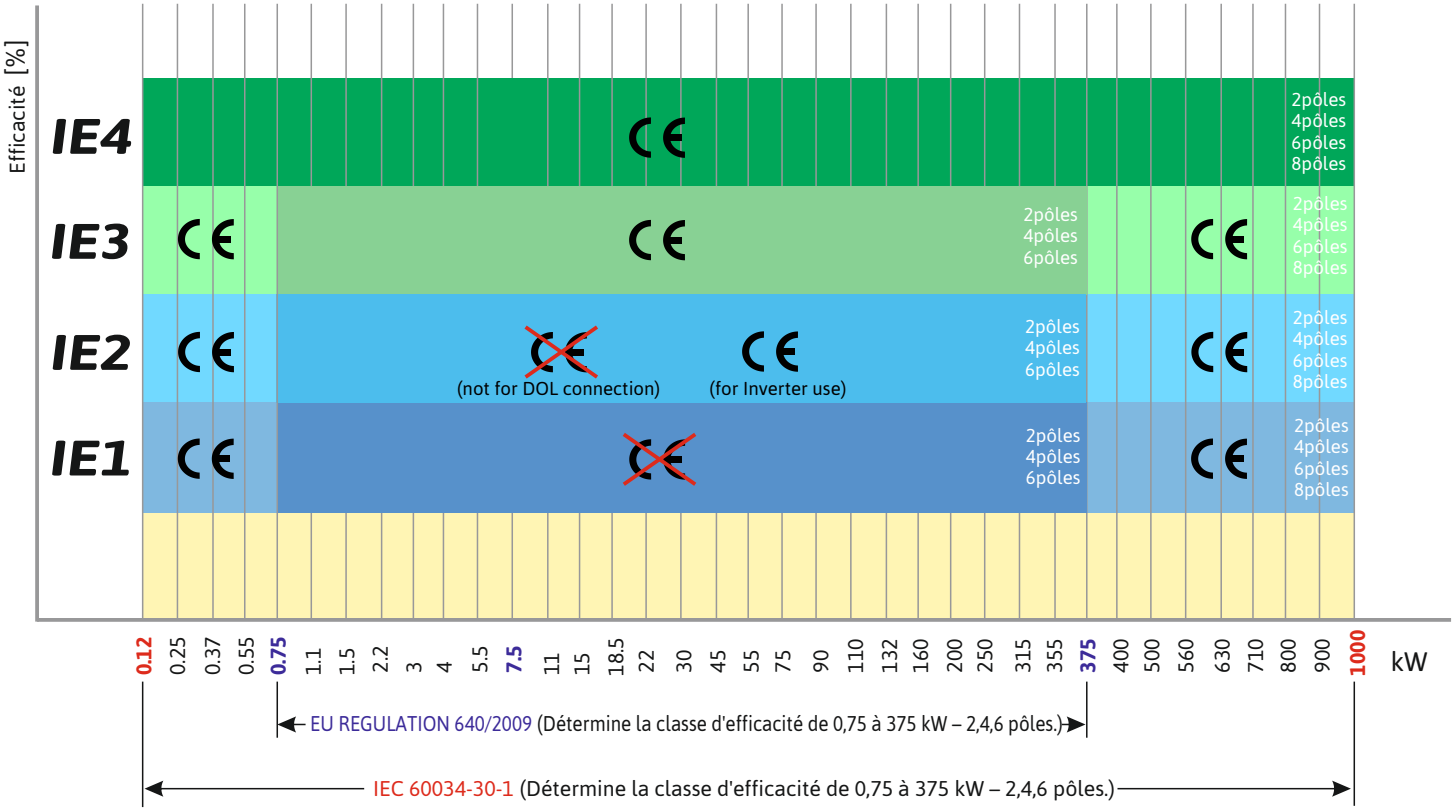


DIMENSIONS DE BASE													BRIDE B5				BRIDE B14A				BRIDE B14B			
Hauteur d'axe-(pôles)		H	A	AB	B	C	K	W	Arbre D	Arbre E	Clé F	Clé GA	M	N	P	S	M	N	P	S	M	N	P	S
63	63M	63	100	120	80	40	7 (M6)	M16+M25	11	23	4	12.5	115	95	140	10	75	60	90	M5	100	80	120	M6
71	71M	71	112	132	90	45	7 (M6)	M16+M25	14	30	5	16	130	110	160	10	85	70	105	M6	115	95	140	M8
80	80M	80	125	150	100	50	10 (M8)	M16+M25	19	40	6	21.5	165	130	200	12	100	80	120	M6	130	110	160	M8
90	90S	90	140	165	100	56	10 (M8)	M16+M25	24	50	8	27	165	130	200	12	115	95	140	M8	130	110	160	M8
	90L				125																			
100	100L	100	160	192	140	63	12 (M10)	M32	28	60	8	31	215	180	250	14.5	130	110	160	M8	165	130	200	M10
112	112M	112	190	225	140	70	12 (M10)	M32	28	60	8	31	215	180	250	14.5	130	110	160	M8	165	130	200	M10
132	132S	132	216	255	140	89	12 (M10)	M32	38	80	10	41	265	230	300	14.5	165	130	200	M10	215	180	250	M12
	132M				178																			
160	160M	160	254	300	210	108	14.5 (M12)	M40	42	110	12	45	300	250	350	18.5	215	180	250	M12	--	--	--	--
	160L				254																			
180	180M	180	279	339	241	121	14.5 (M12)	M40	48	110	14	51.5	300	250	350	18.5	--	--	--	--	--	--	--	--
	180L				279																			
200	200L	200	318	378	305	133	18.5 (M16)	M50	55	110	16	59	350	300	400	18.5	--	--	--	--	--	--	--	--
225	225S-4/6/8	225	356	436	286	149	18.5 (M16)	M50	60	140	18	64	400	350	450	18.5	--	--	--	--	--	--	--	--
	225M-2				311				55	110	16	59												
	225M-4/6/8								60	140	18	64												
250	250M-2	250	406	490	349	168	24 (M20)	M63	60	140	18	64	500	450	550	18.5	--	--	--	--	--	--	--	--
	250M-4/6/8								65			69												
280	280S-2	280	457	540	368	190	24 (M20)	M63	65	140	18	69	500	450	550	18.5	--	--	--	--	--	--	--	--
	280S-4/6/8								75		20	79.5												
	280M-2				419				65		18	69												
	280M-4/6/8								75		20	79.5												
315	315S-2	315	508	610	457	216	28 (M24)	M63	65	140	18	69	600	550	660	24	--	--	--	--	--	--	--	--
	315S-4/6/8								80	170	22	85												
	315M-2								65	140	18	69												
	315M-4/6/8								80	170	22	85												
	315L-2				508				65	140	18	69												
	315L-4/6/8								80	170	22	85												

Les plans d'encombrements détaillés (2D et 3D) peuvent être téléchargés sur www.mez-motors.com



Des appareils sans l'indication CE ne peuvent pas être installés ni utilisés dans l'union Europeènne.



Moteurs mono-phasé, moteur frein, moteur ATEX, moteurs bobiné à 60Hz (pas 50Hz où 50/60Hz) sortent de la directive ERP (EU REGULATION 640/2009).Selon IEC 600034-30-1:2014, il faut mentionner la classe d'efficacité sur la plaque d'identification, ainsi que sur des rapports de test, catalogues, site internet...

Moteurs bi-vitesses – Applications standard

Dahlander D/YY

Hauteur d'axe		63M	71M	71M	80M	80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
4 pôles	kW	0.15	0.21	0.3	0.48	0.7	1.1	1.5	1.9	2.5	3.7	4.7	6.5	9.3	13	15	18	26	32	38	46	63	73	85	100	120	150
2 pôles	kW	0.2	0.28	0.43	0.6	0.85	1.4	1.9	2.4	3.1	4.4	5.9	8	11.5	16	18	21.5	31	38	45	55	75	87	100	120	140	170

Bobinage séparé

Hauteur d'axe		80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
6 pôles	kW	0.26	0.38	0.55	0.9	1.1	1.5	2	2.8	4.3	6.3	11	16	21	25	32	45	54	62	75	90	110
4 pôles	kW	0.4	0.65	0.9	1.3	1.7	2.3	3.1	4.3	6.6	9.5	16.5	24	31	37	47	66	80	92	110	132	160

Dahlander D/YY

Hauteur d'axe		71M	80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
8 pôles	kW	0.09	0.18	0.35	0.5	0.55	0.9	1.1	1.6	2.2	3.5	5.6	11	17	22	25	32	38	46	56	78	92	115
4 pôles	kW	0.18	0.37	0.5	0.7	1.1	1.5	1.9	3.2	4.4	7	11	18	27	32	37	47	56	67	82	115	135	160

Moteurs bi-vitesses – Application ventilateur ou pompe centrifuge

Dahlander Y/YY

Hauteur d'axe		71M	80M	80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
4 pôles	kW	0.16	0.15	0.25	0.33	0.5	0.65	0.8	1.1	1.45	2	2.9	4.3	5.8	8.4	10.5	13	15	18	22	26	32	35	45
2 polig	kW	0.65	0.7	0.95	1.4	2	2.4	3.1	4.4	5.9	8	11.5	16	21.5	31	38	45	55	67	80	90	110	140	170

Bobinage séparé

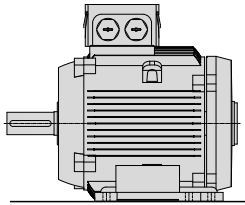
Hauteur d'axe		80M	80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
6 pôles	kW	0.12	0.18	0.29	0.38	0.6	0.8	0.9	1.2	1.7	2.5	3.7	5.5	6.5	9.5	12	14.5	18	25	30	33	45	50	55
4 pôles	kW	0.4	0.55	0.8	1.1	1.7	2.1	3	3.9	5.4	7.2	12	16	19	26	34	40	52	70	82	92	120	150	170

Dahlander Y/YY

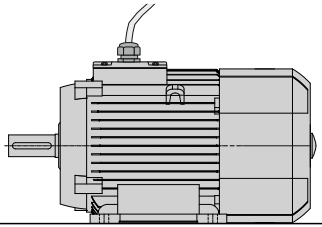
Hauteur d'axe		71M	80M	80M	90S	90L	100L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	315L
8 pôles	kW	0.06	0.1	0.15	0.22	0.33	0.5	0.65	0.9	1.1	1.4	2.2	3.3	4.5	5	7.5	9.5	11.5	14.5	19	23	26	30	35	45
4 pôles	kW	0.3	0.5	0.7	1	1.5	2	2.5	3.6	4.7	6.4	9.5	14	16	18.5	28	35	42	52	70	83	95	115	140	175

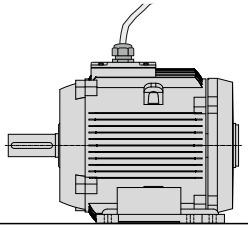
Les moteurs bi-vitesses sont de standard 3x400V, 50Hz, IP55 – 3x230V sur demande.

Moteurs TENV ou TEAO



Moteurs sans boîte à bornes TEFC, TENV ou TEAO





Explication refroidissement du moteur

»TEFC - (IC411) Complètement fermé refroisissment par ventilateur
»TEAO- (IC418) Complètement fermé dans le courant d'air
»TENV- (IC410) Complètement fermé sans ventilation
»TEFV - (IC416) Complètement fermé ventilation forcée

Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9002-0BA22-2_A4	0.18	0.21	63M	2805	3366	0.66	0.62	0.6	0.64	0.79	IE1	53	50.1	44	0.61	3.4	1.7	2.2	4
	1TZ9002-0BA32-2_A4	0.25	0.29	63M	2835	3402	0.87	0.83	0.80	0.83	0.75	IE1	58	56	49	0.84	3.6	1.9	2.6	4
	1TZ9002-0BA62-2_A4	0.37	0.43	63M	2795	3354	1.24	1.18	1.14	1.19	0.71	IE1	63.9	60.3	51.9	1.3	3.5	2.4	2.6	5
	1TZ9002-0CA22-2_A4	0.37	0.43	71M	2755	3306	1.11	1.06	1.02	1.07	0.79	IE1	64	65	61	1.3	3.4	2.2	2.2	5
	1TZ9002-0CA32-2_A4	0.55	0.63	71M	2750	3300	1.53	1.46	1.41	1.45	0.79	IE1	69	70	67	1.9	3.7	2.2	2.2	6
	1TZ9002-0CA62-2_A4	0.75	0.86	71M	2780	3336	1.91	1.81	1.75	1.81	0.83	IE1	72.1	72.5	70.2	2.6	4.5	2.2	2.2	7
	1TZ9001-0DA22-2_A4	0.75	0.86	80M	2805	3366	1.75	1.67	1.61	1.68	0.84	IE2	77.4	79.5	78.8	2.6	4.9	1.9	2.3	9.0
	1TZ9001-0DA32-2_A4	1.1	1.27	80M	2835	3402	2.53	2.40	2.32	2.30	0.83	IE2	79.6	81.3	80.8	3.7	6.0	2.7	3.1	11
	1TZ9001-0DA62-2_A4	1.5	1.75	80M	2830	3430	3.3	3.15	3	3.00	0.85	IE2	81.3	83.3	83.7	5.1	6.1	2.6	2.8	11
	1TZ9001-0EA02-2_A4	1.5	1.75	90S	2885	3462	3.34	3.15	3.06	3.08	0.84	IE2	81.3	82.3	80.8	5.0	6.9	2.7	3.6	13
	1TZ9001-0EA42-2_A4	2.2	2.55	90L	2890	3468	4.7	4.5	4.3	4.4	0.85	IE2	83.2	83.9	82.3	7.3	7.1	2.5	3.7	15
	1TZ9001-0EA62-2_A4	3	3.45	90L	2895	3495	6.3	6	5.7	5.7	0.86	IE2	84.6	85.5	84.8	9.9	7.9	3.4	3.6	15
	1TZ9001-1AA43-4_A4	3	3.45	100L	2905	3486	6.42	6.1	5.88	5.83	0.84	IE2	84.6	85.2	84.7	9.9	7.0	2.3	3.3	21
	1TZ9001-1AA63-4_A4	4	4.55	100L	2905	3486	8.25	7.8	7.55	7.51	0.86	IE2	85.8	87.2	87.0	13	7.6	2.5	3.5	26
	1TZ9001-1BA23-4_A4	4	4.55	112M	2950	3540	8.25	7.8	7.55	7.51	0.86	IE2	85.8	86.7	86.1	13	7.4	2.4	3.3	27
	1TZ9001-1BA63-4_A4	5.5	6.3	112M	2950	3540	10.8	10.3	9.9	9.9	0.89	IE2	87.0	87.5	87.2	18	7.7	2.2	3.3	34
	1TZ9001-1CA03-4_A4	5.5	6.3	132S	2950	3540	11.1	10.5	10.1	10.2	0.87	IE2	87	88	87.4	18	6.6	1.8	2.9	39
	1TZ9001-1CA13-4_A4	7.5	8.6	132S	2950	3540	14.9	14.1	13.6	13.7	0.87	IE2	88.1	88.7	88.6	24	7.5	2.2	3.1	43
	1TZ9001-1CA63-4_A4	11	12.6	132M	2950	3540	21	20	19	20	0.89	IE2	89.4	90.2	90.3	36	7.9	2.3	3.2	57
	1TZ9001-1CA73-4_A4	15	17.3	132M	2945	3545	28	27	25	26	0.91	IE2	90.3	91.2	91.5	49	8.4	1.5	1.7	65
	1TZ9001-1DA23-4_A4	11	12.6	160M	2955	3546	22	21	20	20	0.87	IE2	89.4	90	89.1	36	7.4	2.1	3.2	67
	1TZ9001-1DA33-4_A4	15	17.3	160M	2955	3546	29	27	26	27	0.88	IE2	90.3	90.9	90.3	48	7.6	2.4	3.4	75
	1TZ9001-1DA43-4_A4	18.5	21.3	160L	2955	3546	35	34	32	33	0.88	IE2	90.9	91.2	90.4	60	7.9	2.9	3.6	84
	1TZ9001-1DA63-4_A4	22	25.3	160L	2955	3546	41	39	38	39	0.89	IE2	91.3	91.7	91.3	71	8.4	3.1	3.7	94
	1TZ9501-1EA23-4_A4	22	24.5	180M	2940	3528	42	41	39	38	0.87	IE2	91.3	91.8	91.4	71	7.4	2.7	3.6	145
	1TZ9501-1EA63-4_A4	30	33.5	180L	2940	3528	56	53	51	51	0.89	IE2	92.0	92.5	92.2	97	7.8	2.3	3.4	180
	1TZ9501-2AA43-4_A4	30	33.5	200L	2955	3546	57	54	52	52	0.87	IE2	92	92.3	91.7	97	6.9	2.5	3.3	200
	1TZ9501-2AA53-4_A4	37	41.5	200L	2960	3552	69	66	63	63	0.88	IE2	92.5	92.8	92.3	119	7.4	2.7	3.5	225
	1TZ9501-2AA63-4_A4	45	51	200L	2950	3540	85	81	78	78	0.87	IE2	92.9	93.4	93.1	146	7.1	2.5	3.2	245
	1TZ9501-2BA23-4_A4	45	51	225M	2965	3558	84	79	77	77	0.88	IE2	92.9	93.1	92.5	145	7.8	2.7	3.7	295
	1TZ9501-2BA63-4_A4	55	62	225M	2960	3552	104	99	96	96	0.86	IE2	93.2	93.6	93.2	177	7	2.5	3.3	320
	1TZ9501-2CA23-4_A4	55	62	250M	2970	3564	101	96	92	93	0.89	IE2	93.2	93.3	92.4	177	6.8	2.3	3.1	360
	1TZ9501-2CA63-4_A4	75	84	250M	2970	3564	143	136	131	130	0.85	IE2	93.8	93.6	92.6	241	7	2.2	3.3	390
	1TZ9501-2DA03-4_A4	75	84	280S	2978	3574	140	133	128	128	0.87	IE2	93.8	93.6	92.4	240	7.2	2.5	3.2	490
	1TZ9501-2DA23-4_A4	90	101	280M	2975	3570	165	157	151	151	0.88	IE2	94.1	94.2	93.5	289	7.1	2.5	3.1	530
	1TZ9501-2DA63-4_A4	110	123	280M	2975	3570	197	187	181	180	0.9	IE2	94.3	94.5	94.1	353	7.4	2.5	3.1	620
	1TZ9501-3AA03-4_A4	110	123	315S	2982	3578	197	187	181	180	0.9	IE2	94.3	94.2	93.3	352	7.3	2.4	3	720
	1TZ9501-3AA23-4_A4	132	148	315M	2982	3578	233	220	214	213	0.91	IE2	94.6	94.7	94.1	423	7.2	2.4	3.1	880
	1TZ9501-3AA43-4_A4	160	180	315L	2982	3578	279	265	256	256	0.92	IE2	94.8	94.9	94.3	512	7.0	2.3	3.1	930
	1TZ9501-3AA53-4_A4	200	224	315L	2982	3578	348	330	319	317	0.92	IE2	95	95.2	94.8	640	7.1	2.4	3	1130

A partir de HA180-HA355, 3xPTC standard.

Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9002-0BB22-2_A4	0.12	0.14	63M	1360	1632	0.51	0.49	0.47	0.52	0.71	IE1	50	47.3	39.1	0.84	2.5	1.6	1.8	4
	1TZ9002-0BB32-2_A4	0.18	0.21	63M	1360	1632	0.68	0.64	0.62	0.68	0.71	IE1	57	55.1	47.8	1.30	2.8	1.9	2.1	4
	1TZ9002-0BB62-2_A4	0.25	0.29	63M	1365	1638	0.91	0.86	0.83	0.9	0.68	IE1	61.5	59.6	53.5	1.7	2.9	2.3	2.3	5
	1TZ9002-0CB22-2_A4	0.25	0.29	71M	1365	1638	0.85	0.8	0.78	0.83	0.73	IE1	61.5	61.4	56.1	1.7	3.0	1.8	2	5
	1TZ9002-0CB32-2_A4	0.37	0.43	71M	1350	1620	1.14	1.08	1.04	1.09	0.75	IE1	66	67.7	65	2.6	3.2	2	2	6
	1TZ9002-0CB62-2_A4	0.55	0.63	71M	1365	1638	1.71	1.62	1.56	1.62	0.7	IE1	70	70.5	67.4	3.8	3.6	2.5	2.5	7
	1TZ9001-0DB22-2_A4	0.55	0.63	80M	1440	1728	1.45	1.37	1.33	1.34	0.74	IE2	78.1	78.9	76.1	3.7	5.3	2.2	3.1	10
	1TZ9001-0DB32-2_A4	0.75	0.86	80M	1440	1728	1.89	1.79	1.73	1.7	0.76	IE2	79.6	80.2	78.0	5.0	5.6	2.2	3.1	11
	1TZ9001-0DB62-2_A4	1.1	1.27	80M	1440	1740	2.6	2.5	2.4	2.4	0.78	IE2	81.4	82.2	80.9	7.3	6.1	2.4	3	11
	1TZ9001-0EB02-2_A4	1.1	1.27	90S	1425	1710	2.64	2.5	2.41	2.4	0.78	IE2	81.4	81.7	79.9	7.4	5.6	2.3	2.9	13
	1TZ9001-0EB42-2_A4	1.5	1.75	90L	1435	1722	3.5	3.3	3.2	3.3	0.79	IE2	82.8	83.5	82.0	10	6.4	2.6	3.4	16
	1TZ9001-0EB62-2_A4	2.2	2.55	90L	1425	1725	4.9	4.65	4.5	4.8	0.81	IE2	84.3	85.6	85.2	15	6.1	2.8	3.1	16
	1TZ9001-1AB42-2_A4	2.2	2.55	100L	1455	1746	4.9	4.7	4.5	4.5	0.81	IE2	84.3	85.1	84.3	14	6.9	2.1	3.3	21
	1TZ9001-1AB53-4_A4	3	3.45	100L	1455	1746	6.5	6.2	6.0	6.0	0.82	IE2	85.5	86.7	86	20	6.9	2	3.1	25
	1TZ9001-1AB63-4_A4	4	4.55	100L	1460	1752	8.8	8.3	8.0	8.1	0.8	IE2	86.6	87.4	86.7	26	7.5	2.2	3.5	30
	1TZ9001-1BB23-4_A4	4	4.55	112M	1460	1752	8.7	8.2	7.9	8.0	0.81	IE2	86.6	87.3	86.5	26	7.1	2.5	3.2	29
	1TZ9001-1BB63-4_A4	5.5	6.3	112M	1460	1752	11.8	11.2	10.8	10.8	0.81	IE2	87.7	88.1	87.4	36	7.1	2.5	3.2	34
	1TZ9001-1CB03-4_A4	5.5	6.3	132S	1465	1758	11.9	11.3	10.9	10.9	0.8	IE2	87.7	89	87.7	36	6.9	2.3	2.9	42
	1TZ9001-1CB23-4_A4	7.5	8.6	132M	1465	1758	15.5	14.7	14.2	14.4	0.83	IE2	88.7	90.3	88.8	49	6.9	2.3	2.9	49
	1TZ9001-1CB63-4_A4	11	12.6	132M	1465	1758	22	21	20	21	0.84	IE2	89.8	90.6	90.4	72	7.7	2.6	3.1	64
	1TZ9001-1DB23-4_A4	11	12.6	160M	1470	1764	22	21	20	20	0.85	IE2	89.8	90.9	90.8	71	6.7	2.1	2.8	71
	1TZ9001-1DB43-4_A4	15	17.3	160L	1475	1770	30	28	27	28	0.85	IE2	90.6	91.3	91	97	7.3	2.3	3	83
	1TZ9001-1DB63-4_A4	18.5	21.3	160L	1475	1770	36	35	33	34	0.85	IE2	91.2	91.7	91.6	120	7.7	2.5	3.3	100
	1TZ9501-1EB23-4_A4	18.5	21.3	180M	1465	1758	37	35	34	34	0.84	IE2	91.2	92	91.9	121	7.2	2.5	3.4	160
	1TZ9501-1EB43-4_A4	22	25.3	180L	1465	1758	44	42	40	41	0.84	IE2	91.6	92.2	91.9	143	7.3	2.6	3.5	170
	1TZ9501-1EB63-4_A4	30	34.5	180L	1465	1758	61	58	56	57	0.81	IE2	92.3	93	92.9	196	7.3	2.5	3.3	185
	1TZ9501-2AB53-4_A4	30	34.5	200L	1470	1764	59	56	54	55	0.84	IE2	92.3	92.8	92.6	195	6.7	2.5	3.3	230
	1TZ9501-2AB63-4_A4	37	42.5	200L	1470	1764	72	69	66	67	0.84	IE2	92.7	93.6	93.8	240	7	2.4	3	240
	1TZ9501-2BB03-4_A4	37	42.5	225S	1470	1764	69	65	63	65	0.88	IE2	92.7	93.5	93.5	240	6.6	2.3	2.9	280
	1TZ9501-2BB23-4_A4	45	52	225M	1475	1770	85	80	77	79	0.87	IE2	93.1	93.8	93.7	291	6.9	2.5	3.1	305
	1TZ9501-2BB63-4_A4	55	63	225M	1475	1770	107	101	98	99	0.84	IE2	93.5	94.2	94.1	356	5.8	2.5	2.7	320
	1TZ9501-2CB23-4_A4	55	63	250M	1480	1776	105	100	96	98	0.85	IE2	93.5	93.9	93.5	355	6.8	2.7	3	385
	1TZ9501-2CB63-4_A4	75	86	250M	1480	1776	141	134	129	131	0.86	IE2	94.0	94.5	94.3	484	6.2	2.3	2.8	440
	1TZ9501-2DB03-4_A4	75	86	280S	1485	1782	140	132	128	130	0.87	IE2	94	94.2	93.8	482	6.8	2.5	3	550
	1TZ9501-2DB23-4_A4	90	104	280M	1486	1783	167	159	153	157	0.87	IE2	94.2	94.3	93.6	578	7.3	2.6	3.1	570
	1TZ9501-2DB63-4_A4	110	127	280M	1485	1782	204	193	186	191	0.87	IE2	94.5	94.9	94.8	707	6.9	2.5	3	680
	1TZ9501-3AB03-4_A4	110	127	315S	1490	1788	206	195	189	193	0.86	IE2	94.5	94.6	94	705	7.4	2.7	3	740
	1TZ9501-3AB23-4_A4	132	152	315M	1490	1788	244	230	223	229	0.87	IE2	94.7	94.9	94.6	847	7.1	2.7	2.9	870
	1TZ9501-3AB43-4_A4	160	184	315L	1490	1788	295	280	270	277	0.87	IE2	94.9	95	94.5	1025	7.2	2.8	3.1	940
	1TZ9501-3AB53-4_A4	200	230	315L	1490	1788	368	350	337	346	0.87	IE2	95.1	95.3	94.7	1282	7.5	3.1	3.2	1140

Moteurs aluminium

choix entre moteurs Aluminium et Fontes

Moteurs Fontes

Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
	1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9002-0BC22-2_A4	0.09	0.11	63M	895	1074	0.51	0.48	0.47	0.54	0.63	n/a	42.7	38.5	30.4	0.96	2.0	1.8	1.9	4
	1TZ9002-0CC22-2_A4	0.18	0.21	71M	800	960	0.90	0.84	0.82	0.89	0.67	IE1	45.5	44.4	38.3	2.1	2.0	1.9	2.0	5
	1TZ9002-0CC32-2_A4	0.25	0.29	71M	860	1032	1.03	0.98	0.94	1.00	0.71	IE1	52.1	52.8	48.4	2.8	2.2	2.0	2.0	6
	1TZ9001-0DC22-2_A4	0.37	0.43	80M	925	1110	1.14	1.08	1.05	1.03	0.69	IE2	71.4	71.5	66.5	3.85	4.0	2.1	2.4	9
	1TZ9001-0DC32-2_A4	0.55	0.63	80M	935	1122	1.71	1.63	1.57	1.53	0.66	IE2	74.0	74.0	70.5	5.6	4.4	2.5	2.9	12
	1TZ9001-0EC02-2_A4	0.75	0.86	90S	925	1110	2.15	2.05	1.97	1.9	0.70	IE2	75.9	76.0	73.0	7.7	4.1	2.0	2.5	13
	1TZ9001-0EC42-2_A4	1.1	1.27	90L	935	1122	3.06	2.90	2.80	2.60	0.70	IE2	78.1	78.5	75.0	11.2	4.4	2.2	2.6	16
	1TZ9001-1AC42-2_A4	1.5	1.75	100L	970	1164	3.92	3.7	3.59	3.44	0.73	IE2	79.8	80.2	79.0	15	6.2	2.0	2.9	25
	1TZ9001-1AC62-2_A4	2.2	2.55	100L	965	1158	5.4	5.1	4.9	4.8	0.76	IE2	81.8	82.5	81.5	22	5.7	1.9	2.9	30
	1TZ9001-1BC22-2_A4	2.2	2.55	112M	965	1158	5.5	5.2	5.0	4.8	0.75	IE2	81.8	82.5	81.3	22	6.0	2.1	3.1	29
	1TZ9001-1BC63-4_A4	3	3.45	112M	960	1152	6.9	6.6	6.3	6.2	0.79	IE2	83.3	84.1	83.6	30	6.0	2.1	3.1	34
	1TZ9001-1CC03-4_A4	3	3.45	132S	970	1164	7.4	7.0	6.8	6.6	0.74	IE2	83.3	84.0	82.8	30	5.6	1.6	2.6	38
	1TZ9001-1CC23-4_A4	4	4.55	132M	970	1164	9.2	8.7	8.4	8.3	0.78	IE2	84.6	85.8	85.0	39	5.6	1.6	2.5	43
	1TZ9001-1CC33-4_A4	5.5	6.3	132M	970	1164	13	12	12	11	0.77	IE2	86.0	87.4	87.0	54	6.1	1.9	2.8	52
	1TZ9001-1CC63-4_A4	7.5	8.6	132M	970	1164	17	16	16	16	0.77	IE2	87.2	87.8	87.3	74	6.5	2.1	3.0	64
	1TZ9001-1DC23-4_A4	7.5	8.6	160M	975	1170	17	16	16	16	0.77	IE2	87.2	87.7	86.9	73	6.3	1.8	2.8	77
	1TZ9001-1DC43-4_A4	11	12.6	160L	975	1170	24	23	22	22	0.80	IE2	88.7	89.5	89.4	108	6.2	1.7	2.7	93
	1TZ9001-1DC63-4_A4	15	17.3	160L	975	1170	31	30	29	29	0.81	IE2	89.7	90.6	90.5	147	6.5	1.9	2.9	115
	1TZ9501-1EC43-4_A4	15	18	180L	975	1170	33	31	30	32	0.78	IE2	89.7	90.1	90.2	147	6.0	2.5	3.1	155
	1TZ9501-1EC63-4_A4	18.5	22	180L	975	1170	40	39	37	38	0.77	IE2	90.4	91.1	90.8	181	6.0	2.3	2.9	165
	1TZ9501-2AC43-4_A4	18.5	22	200L	978	1174	38	36	35	36	0.82	IE2	90.4	91.3	91.2	181	5.8	2.4	2.6	200
	1TZ9501-2AC53-4_A4	22	26.5	200L	978	1174	45	43	41	44	0.82	IE2	90.9	91.6	91.2	215	6.2	2.5	2.6	220
	1TZ9501-2AC63-4_A4	30	34.5	200L	975	1170	65	61	59	59	0.77	IE2	91.7	92.5	92.5	294	6.3	2.6	2.7	245
	1TZ9501-2BC23-4_A4	30	36	225M	980	1176	60	57	55	58	0.83	IE2	91.7	92.5	92.3	292	6.1	2.5	2.8	285
	1TZ9501-2BC63-4_A4	37	44.5	225M	978	1174	74	70	67	73	0.83	IE2	92.2	93.0	92.9	361	6.3	2.5	2.9	325
	1TZ9501-2CC23-4_A4	37	44.5	250M	982	1178	74	70	67	72	0.83	IE2	92.2	93.1	93.1	360	6.0	2.8	2.5	370
	1TZ9501-2CC63-4_A4	45	54	250M	985	1182	88	83	81	87	0.84	IE2	92.7	93.7	94.0	436	6.9	2.9	3.0	410
	1TZ9501-2DC03-4_A4	45	54	280S	985	1182	88	83	81	85	0.84	IE2	92.7	93.4	93.2	436	6.3	2.7	2.6	460
	1TZ9501-2DC23-4_A4	55	66	280M	985	1182	105	99	96	102	0.86	IE2	93.1	93.9	94.0	533	6.4	2.5	2.6	510
	1TZ9501-2DC63-4_A4	75	90	280M	986	1183	143	136	131	140	0.85	IE2	93.7	94.3	94.4	726	7.0	3.2	2.9	570
	1TZ9501-3AC03-4_A4	75	90	315S	988	1186	145	138	133	141	0.84	IE2	93.7	94.0	93.6	725	6.7	2.5	2.8	660
	1TZ9501-3AC23-4_A4	90	108	315M	988	1186	173	165	159	170	0.84	IE2	94.0	94.3	93.6	870	6.9	2.6	2.8	730
	1TZ9501-3AC43-4_A4	110	132	315L	988	1186	206	196	189	201	0.86	IE2	94.3	94.6	94.5	1063	7.0	2.7	2.8	920
	1TZ9501-3AC53-4_A4	132	158	315L	988	1186	247	235	226	240	0.86	IE2	94.6	94.9	94.7	1276	7.5	3.0	2.9	990
	1TZ9501-3AC63-4_A4	160	192	315L	988	1186	299	285	273	292	0.86	IE2	94.8	94.7	94.4	1546	7.7	3.1	3.3	1160

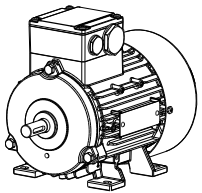
A partir de HA180-HA355, 3xPTC standard.

Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
	750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9002-0CD22-2_A4	0.09	0.11	71M	635	762	0.56	0.53	0.51	0.60	0.63	n/a	39	35.7	28.6	1.40	1.8	1.8	2.0	5
	1TZ9002-0CD32-2_A4	0.12	0.14	71M	625	750	0.87	0.82	0.79	0.89	0.68	IE1	31	30.5	27.1	1.80	2.0	1.7	1.7	6
	1TZ9001-0DD22-2_A4	0.18	0.21	80M	690	840	0.99	0.94	0.91	0.97	0.60	IE2	45.9	43.6	37.8	2.50	2.2	1.7	2.1	8.5
	1TZ9001-0DD32-2_A4	0.25	0.29	80M	705	855	1.37	1.30	1.25	1.27	0.55	IE2	50.6	48.1	41.9	3.4	2.5	2.0	2.5	10.4
	1TZ9001-0ED02-2_A4	0.37	0.43	90S	675	830	1.41	1.34	1.29	1.33	0.71	IE2	56.1	55.6	49.6	5.2	2.6	1.4	1.7	11.5
	1TZ9001-0ED42-2_A4	0.55	0.63	90L	665	820	1.83	1.74	1.68	1.77	0.74	IE2	61.7	63.4	59.8	7.9	2.7	1.5	1.7	14.5
	1TZ9001-1AD42-2_A4	0.75	0.86	100L	725	870	2.88	2.8	2.64	2.48	0.58	IE2	68.3	65.8	59.3	9.9	4.0	1.6	2.8	21
	1TZ9001-1AD52-2_A4	1.1	1.3	100L	725	870	4.2	4.0	3.9	3.8	0.58	IE2	68.3	65.4	58.9	14	4.1	1.8	2.8	25
	1TZ9001-1BD22-2_A4	1.5	1.75	112M	720	864	4.49	4.25	4.11	4.12	0.67	IE2	75.8	76.0	73.0	20	4.2	1.4	2.4	29
	1TZ9001-1CD02-2_A4	2.2	2.55	132S	725	870	6.5	6.2	6	5.8	0.65	IE2	78.8	79.3	77.2	29	4.3	1.4	2.1	41
	1TZ9001-1CD23-4_A4	3	3.45	132M	730	876	8.5	8.1	7.8	7.7	0.65	IE2	82.7	83.0	80.9	39	5.0	1.4	2.4	49
	1TZ9001-1DD23-4_A4	4	4.55	160M	730	876	10.2	9.7	9.4	9.6	0.69	IE2	86.2	86.9	86.0	52	4.3	1.8	2.0	69
	1TZ9001-1DD33-4_A4	5.5	6.3	160M	730	876	14.0	13.3	12.8	13.2	0.69	IE2	86.7	87.5	86.5	72	4.4	2.1	2.1	82
	1TZ9001-1DD43-4_A4	7.5	8.6	160L	730	876	18.2	17.3	16.7	16.7	0.72	IE2	86.9	88.2	88.1	98	4.5	1.9	2.1	94
	1TZ9501-1ED43-4_A4	11	13.2	180L	720	864	28	26	25	26	0.70	IE2	86.6	87.6	87.1	146	4.9	2.3	2.6	155
	1TZ9501-1ED63-4_A4	15	18	180L	720	864	36	34	33	34	0.73	IE2	87.9	88.9	88.2	199	4.9	2.2	2.5	190
	1TZ9501-2AD53-4_A4	15	18	200L	718	862	34	32	31	32	0.76	IE2	88.9	90.8	91.2	200	5.4	2.4	2.8	220
	1TZ9501-2AD63-4_A4	18.5	22	200L	720	864	41	39	37	39	0.78	IE2	88.6	89.9	90.1	245	5.8	2.6	3.0	250
	1TZ9501-2BD03-4_A4	18.5	22	225S	730	876	41	39	37	39	0.78	IE2	89.0	89.9	89.5	242	5.4	2.2	2.7	250
	1TZ9501-2BD23-4_A4	22	26.5	225M	730	876	46	44	42	45	0.80	IE2	90.3	91.3	91.1	288	5.5	2.3	2.7	270
	1TZ9501-2BD63-4_A4	30	36	225M	732	878	65	62	60	63	0.77	IE2	90.8	92.0	92.1	391	6.1	2.8	3.2	325
	1TZ9501-2CD23-4_A4	30	36	250M	732	878	63	59	57	61	0.80	IE2	91.3	92.2	92.0	391	5.6	2.4	2.7	370
	1TZ9501-2CD63-4_A4	37	44.5	250M	730	876	74	70	68	74	0.83	IE2	91.6	92.6	92.7	484	5.5	2.3	2.6	405
	1TZ9501-2DD03-4_A4	37	44.5	280S	736	883	79	75	72	77	0.78	IE2	91.9	92.5	92.1	480	5.4	2.3	2.4	460
	1TZ9501-2DD23-4_A4	45	54	280M	738	886	94	89	86	93	0.79	IE2	92.4	92.8	92.4	582	5.7	2.5	2.5	510
	1TZ9501-2DD63-4_A4	55	66	280M	735	882	111	105	102	109	0.81	IE2	92.9	93.4	93.0	715	5.4	2.3	2.3	550
	1TZ9501-3AD03-4_A4	55	66	315S	740	888	113	107	103	110	0.80	IE2	92.9	93.3	92.9	710	5.8	2.2	2.6	640
	1TZ9501-3AD23-4_A4	75	90	315M	738	886	151	143	138	148	0.81	IE2	93.5	94.4	94.5	970	5.8	2.2	2.6	710
	1TZ9501-3AD43-4_A4	90	108	315L	740	888	176	167	162	172	0.83	IE2	93.5	94.3	94.4	1161	5.8	2.2	2.5	860
	1TZ9501-3AD53-4_A4	110	132	315L	740	888	217	205	198	213	0.82	IE2	94.2	95.0	95.1	1420	6.4	2.4	2.8	980
	1TZ9501-3AD63-4_A4	132	158	315L	740	888	263	250	240	257	0.81	IE2	94.4	94.8	94.4	1703	7.1	2.7	3.1	1060

Moteurs aluminium

choix entre moteurs Aluminium et Fontes

Moteurs Fontes



Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9003-0DA22-2_A4	0.75	0.86	80M	2860	3460	1.66	1.58	1.52	1.65	0.85	IE3	80.7	80.7	79.7	2.5	6.1	2.5	3.1	11
	1TZ9003-0DA32-2_A4	1.1	1.27	80M	2885	3480	2.38	2.25	2.18	2.25	0.85	IE3	82.7	82.7	81.7	3.6	7.1	3.0	3.7	12
	1TZ9003-0EA02-2_A4	1.5	1.75	90S	2920	3515	3.15	3.00	2.89	2.95	0.86	IE3	84.2	84.2	83.2	4.9	8.1	2.7	4.4	15
	1TZ9003-0EA42-2_A4	2.2	2.55	90L	2920	3515	4.43	4.20	4.05	4.20	0.88	IE3	85.9	85.9	84.9	7.2	8.2	2.7	4.4	19
	1TZ9003-1AA43-4_A4	3	3.45	100L	2920	3520	6.0	5.6	5.5	5.5	0.88	IE3	87.1	87.1	86.1	9.8	8.1	3.2	4.6	26
	1TZ9003-1BA23-4_A4	4	4.55	112M	2955	3555	7.8	7.4	7.1	7.2	0.89	IE3	88.1	88.1	87.1	13	8.0	2.9	4.4	34
	1TZ9003-1CA03-4_A4	5.5	6.3	132S	2950	3545	10.4	9.9	9.5	9.7	0.90	IE3	89.2	89.2	88.2	18	7.3	1.9	3.7	43
	1TZ9003-1CA13-4_A4	7.5	8.6	132S	2950	3550	13.8	13.1	12.6	13.0	0.92	IE3	90.1	90.1	89.1	24	8.3	2.1	4.0	57
	1TZ9003-1CA63-4_A4	11	12.6	132M	2955	3560	21	20	20	20	0.86	IE3	91.2	91.2	90.2	36	8.0	2.6	4.3	57
	1TZ9003-1CA73-4_A4	15	17.3	132M	2955	3555	29	27	26	27	0.87	IE3	91.9	91.9	90.9	48	8.4	2.2	4.8	64
	1TZ9003-1DA23-4_A4	11	12.6	160M	2955	3555	21	20	19	20	0.87	IE3	91.2	91.2	90.2	36	7.6	2.5	3.8	75
	1TZ9003-1DA33-4_A4	15	17.3	160M	2960	3560	29	27	26	27	0.87	IE3	91.9	91.9	90.9	48	8.8	2.8	4.3	84
	1TZ9003-1DA43-4_A4	18.5	21.3	160L	2955	3550	34	32	31	32	0.90	IE3	92.4	92.4	91.4	60	8.3	2.8	3.9	94
	1TZ9003-1DA63-4_A4	22	25.3	160L	2950	3550	40	38	36	38	0.91	IE3	92.7	92.7	91.2	71	8.4	3.2	3.9	105
	1TZ9503-1EA23-4_A4	22	24.5	180M	2950	3550	41	39	37	38	0.89	IE3	92.7	93.0	92.4	71	7.5	2.5	3.5	160
	1TZ9503-1EA63-4_A4	30	33.5	180L	2950	3550	56	53	51	51	0.88	IE3	93.3	93.9	93.9	97	8.6	2.6	3.9	173
	1TZ9503-2AA43-4_A4	30	33.5	200L	2955	3555	56	53	51	52	0.87	IE3	93.3	93.7	93.3	97	6.6	2.5	3.3	225
	1TZ9503-2AA53-4_A4	37	41.5	200L	2955	3555	68	65	63	63	0.88	IE3	93.7	94.1	93.8	120	6.6	2.5	3.2	250
	1TZ9503-2AA63-4_A4	45	51	200L	2950	3555	84	79	77	78	0.87	IE3	94.0	94.6	94.7	146	7.1	2.5	3.2	245
	1TZ9503-2BA23-4_A4	45	51	225M	2960	3560	82	78	75	77	0.89	IE3	94.0	94.5	94.4	145	6.9	2.4	3.3	315
	1TZ9503-2BA63-4_A4	55	62	225M	2965	3565	100	94	91	94	0.89	IE3	94.3	94.6	94.4	177	8.2	3.0	3.8	390
	1TZ9503-2CA23-4_A4	55	62	250M	2975	3575	100	95	91	92	0.89	IE3	94.3	94.5	93.9	177	6.7	2.3	3.1	385
	1TZ9503-2CA63-4_A4	75	84	250M	2970	3570	134	128	123	124	0.90	IE3	94.7	94.9	94.5	241	6.9	2.2	3.0	470
	1TZ9503-2DA03-4_A4	75	84	280S	2975	3575	135	128	124	125	0.89	IE3	94.7	94.8	94.1	241	6.8	2.4	3.0	510
	1TZ9503-2DA23-4_A4	90	101	280M	2975	3575	160	152	147	149	0.90	IE3	95.0	95.1	94.6	289	7.2	2.4	3.1	590
	1TZ9503-2DA63-4_A4	110	123	280M	2975	3575	193	183	177	179	0.91	IE3	95.2	95.4	95.1	353	7.5	2.5	3.3	670
	1TZ9503-3AA03-4_A4	110	123	315S	2982	3582	193	183	177	179	0.91	IE3	95.2	95.4	94.9	352	7.1	2.4	3.1	750
	1TZ9503-3AA23-4_A4	132	148	315M	2982	3582	231	220	212	215	0.91	IE3	95.4	95.5	95.2	423	7.2	2.5	3.1	880
	1TZ9503-3AA43-4_A4	160	180	315L	2982	3582	277	265	253	255	0.92	IE3	95.6	95.7	95.2	512	7.8	2.8	3.3	980
	1TZ9503-3AA53-4_A4	200	224	315L	2982	3582	345	330	316	320	0.92	IE3	95.8	95.9	95.5	640	7.2	2.5	3.0	1150
	1TZ5503-3AA63-4_A4	250	250	315L	2986	3588	456	435	418	373	0.87	IE3	95.8	95.6	94.8	800	9.1	3.0	4.0	1310
	1TZ5503-3AA73-4_A4	315	315	315L	2986	3588	575	550	526	475	0.87	IE3	95.8	95.6	94.8	1010	9.9	3.5	4.2	1520
	1TZ5603-3BA33-4_A4	355	355	355M	2988	3590	633	600	580	523	0.89	IE3	95.8	95.6	94.8	1130	8.9	2.6	4.0	2100
	1TZ5603-3BA43-4_A4	400	400	355L	2986	3590	690	660	632	577	0.92	IE3	95.8	95.7	95.2	1280	8.5	2.6	3.4	2240
	1TZ5603-3BA53-4_A4	500	500	355L	2988	3590	892	850	817	737	0.89	IE3	95.8	95.7	95.1	1600	8.9	3.0	3.8	2340

A partir de HA180-HA355, 3xPTC standard.

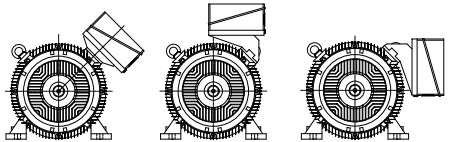
Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9003-0DB22-2_A4	0.55	0.63	80M	1440	1740	1.37	1.30	1.26	1.27	0.78	IE3	78.1	78.6	75.6	3.6	5.8	2.2	3.1	11
	1TZ9003-0DB32-2_A4	0.75	0.86	80M	1455	1755	1.82	1.73	1.67	1.66	0.76	IE3	82.5	82.5	81.5	4.9	6.8	2.6	3.8	14
	1TZ9003-0EB02-2_A4	1.1	1.27	90S	1445	1740	2.52	2.40	2.31	2.35	0.79	IE3	84.1	84.1	83.1	7.3	7.2	2.7	3.7	16
	1TZ9003-0EB42-2_A4	1.5	1.75	90L	1445	1745	3.34	3.15	3.06	3.15	0.80	IE3	85.3	85.3	84.3	9.9	7.7	2.8	3.9	19
	1TZ9003-1AB42-2_A4	2.2	2.55	100L	1465	1765	4.7	4.4	4.3	4.3	0.83	IE3	86.7	86.7	85.7	14	8.4	3.2	4.4	30
	1TZ9003-1AB53-4_A4	3	3.45	100L	1460	1755	6.3	5.9	5.7	5.8	0.83	IE3	87.7	87.7	86.7	20	8.3	2.5	3.9	30
	1TZ9003-1BB23-4_A4	4	4.55	112M	1460	1760	8.4	7.9	7.7	7.7	0.82	IE3	88.6	88.6	87.6	26	7.1	2.4	3.7	34
	1TZ9003-1CB03-4_A4	5.5	6.3	132S	1475	1775	11.1	10.5	10.2	10.3	0.84	IE3	89.6	89.6	88.6	36	8.2	2.8	3.9	64
	1TZ9003-1CB23-4_A4	7.5	8.6	132M	1465	1765	15.0	14.3	13.8	13.8	0.84	IE3	90.4	90.4	89.4	49	8.2	2.6	3.7	64
	1TZ9003-1CB63-4_A4	11	12.6	132M	1470	1765	23.0	21.7	21.0	20.9	0.80	IE3	91.4	92.2	92.0	71	7.7	2.6	3.6	81
	1TZ9003-1DB23-4_A4	11	12.6	160M	1475	1770	22	21	20	20	0.84	IE3	91.4	91.4	90.4	71	7.6	2.6	3.4	83
	1TZ9003-1DB43-4_A4	15	17.3	160L	1475	1775	30	29	28	28	0.82	IE3	92.1	92.1	91.1	97	8.5	2.5	3.8	100
	1TZ9003-1DB63-4_A4	18.5	21.3	160L	1475	1775	38	36	34	35	0.81	IE3	92.6	92.9	92.3	120	7.9	2.9	3.9	110
	1TZ9503-1EB23-4_A4	18.5	21.3	180M	1470	1770	37	35	34	35	0.82	IE3	92.6	93.2	93.2	120	6.9	2.5	3.3	165
	1TZ9503-1EB43-4_A4	22	25.3	180L	1470	1770	43	41	40	41	0.83	IE3	93.0	93.7	93.7	143	6.8	2.5	3.3	170
	1TZ9503-1EB63-4_A4	30	34.5	180L	1470	1770	62	59	57	58	0.79	IE3	93.6	94.3	94.2	195	7.8	2.8	3.7	193
	1TZ9503-2AB53-4_A4	30	34.5	200L	1470	1770	58	55	53	55	0.84	IE3	93.6	94.3	94.4	195	6.9	2.6	3.1	240
	1TZ9503-2AB63-4_A4	37	42.5	200L	1475	1775	74	70	68	69	0.81	IE3	93.9	94.4	94.4	240	8.1	3.1	3.5	260
	1TZ9503-2BB03-4_A4	37	42.5	225S	1478	1778	70	66	64	66	0.86	IE3	93.9	94.5	94.4	239	6.4	2.5	2.7	285
	1TZ9503-2BB23-4_A4	45	52	225M	1478	1778	84	80	77	81	0.86	IE3	94.2	94.9	95.1	291	6.4	2.6	2.7	320
	1TZ9503-2BB63-4_A4	55	63	225M	1478	1778	103	98	94	98	0.86	IE3	94.6	95.3	95.5	355	6.3	2.8	2.7	415
	1TZ9503-2CB23-4_A4	55	63	250M	1482	1782	102	96	93	97	0.87	IE3	94.6	95.1	95.0	354	6.8	2.5	2.9	420
	1TZ9503-2CB63-4_A4	75	86	250M	1485	1785	141	134	129	132	0.85	IE3	95.0	95.2	94.8	482	7.6	3.0	3.4	490
	1TZ9503-2DB03-4_A4	75	86	280S	1485	1785	140	133	128	131	0.86	IE3	95.0	95.3	95.0	482	6.9	2.5	3.0	570
	1TZ9503-2DB23-4_A4	90	104	280M	1485	1785	165	157	151	158	0.87	IE3	95.2	95.5	95.3	579	7.2	2.6	3.0	670
	1TZ9503-2DB63-4_A4	110	127	280M	1485	1785	202	192	185	191	0.87	IE3	95.4	95.6	95.3	707	7.2	2.7	3.0	730
	1TZ9503-3AB03-4_A4	110	127	315S	1488	1788	202	191	185	191	0.87	IE3	95.4	95.8	95.5	706	6.8	2.6	2.9	760
	1TZ9503-3AB23-4_A4	132	152	315M	1490	1788	241	230	221	225	0.87	IE3	95.6	95.9	95.9	846	7.3	2.8	3.0	960
	1TZ9503-3AB43-4_A4	160	184	315L	1490	1788	292	275	267	275	0.87	IE3	95.8	96.1	96.1	1025	7.3	2.9	3.1	990
	1TZ9503-3AB53-4_A4	200	230	315L	1488	1788	360	340	330	345	0.88	IE3	96.0	96.3	96.1	1284	7.4	3.2	3.0	1190
	1TZ5503-3AB63-4_A4	250	250	315L	1490	1791	466	440	427	384	0.85	IE3	96.0	96.1	95.7	1600	7.9	2.8	3.2	1290
	1TZ5503-3AB73-4_A4	315	315	315L	1490	1792	601	570	551	496	0.83	IE3	96.0	96.0	95.6	2000	8.5	3.2	3.5	1560
	1TZ5603-3BB33-4_A4	355	355	355M	1492	1793	654	620	599	546	0.86	IE3	96.0	96.0	95.4	2250	7.9	2.9	2.8	2020
	1TZ5603-3BB43-4_A4	400	400	355L	1492	1794	755	720	691	622	0.84	IE3	96.0	96.0	95.5	2550	8.4	3.4	3.0	2110
	1TZ5603-3BB53-4_A4	500	500	355L	1490	1792	943	890	864	768	0.84	IE3	96.0	96.2	95.9	3200	7.8	3.0	2.6	2290

Moteurs aluminium

choix entre moteurs Aluminium et Fontes

Moteurs Fontes

1TZ5 BG315 & BG355 IE3 & IE4
sont disponibles en exécutions suivantes:
Voir image.



MOTEURS MEZ 6 PÔLES IE3

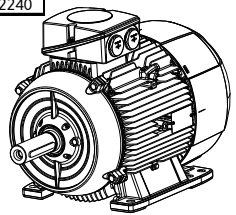
Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
	1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9003-0DC22-2_A4	0.37	0.43	80M	940	1128	1.14	1.08	1.04	1.32	0.66	IE3	74.8	74.3	70.5	3.8	4.2	2.3	2.7	12
	1TZ9003-0DC32-2_A4	0.55	0.63	80M	935	1122	1.62	1.53	1.48	1.85	0.67	IE3	77.2	77.2	75.5	5.6	4.5	2.5	2.8	14
	1TZ9003-0EC02-2_A4	0.75	0.86	90S	945	1145	1.98	1.88	1.81	1.79	0.73	IE3	78.9	79.4	76.9	7.6	5.3	2.3	2.7	16
	1TZ9003-0EC42-2_A4	1.1	1.27	90L	970	1175	3.08	2.95	2.82	2.55	0.67	IE3	81.0	81.0	80.0	11	5.4	2.0	3.0	19
	1TZ9003-1AC42-2_A4	1.5	1.75	100L	970	1170	3.6	3.5	3.3	3.5	0.76	IE3	82.5	82.5	81.5	15	6.9	2.1	3.6	30
	1TZ9003-1BC22-2_A4	2.2	2.55	112M	970	1170	5.0	4.7	4.5	4.8	0.80	IE3	84.3	84.3	83.3	22	6.6	1.7	2.8	29
	1TZ9003-1CC03-4_A4	3	3.45	132S	970	1170	6.8	6.5	6.3	6.1	0.78	IE3	85.6	85.6	84.6	30	6.5	1.8	3.0	43
	1TZ9003-1CC23-4_A4	4	4.55	132M	970	1170	8.9	8.4	8.1	8.1	0.79	IE3	86.8	86.8	85.8	39	6.6	1.9	3.0	52
	1TZ9003-1CC33-4_A4	5.5	6.3	132M	970	1170	12.2	11.6	11.2	11.1	0.78	IE3	88.0	88.0	87.0	54	6.6	2.0	3.1	52
	1TZ9003-1DC23-4_A4	7.5	8.6	160M	980	1180	16.8	16.0	15.4	15.9	0.80	IE3	89.1	89.9	89.3	73	4.9	1.9	2.3	93
	1TZ9003-1DC43-4_A4	11	12.6	160L	975	1175	24	23	22	23	0.80	IE3	90.3	91.1	90.7	108	5.0	1.9	2.3	115
	1TZ9503-1EC43-4_A4	15	18	180L	975	1170	31	30	29	31	0.80	IE3	91.2	91.9	91.9	147	5.9	2.3	2.8	180
	1TZ9503-1EC63-4_A4	18.5	22	180L	975	1175	40	38	36	38	0.77	IE3	91.7	92.3	92.1	181	6.9	2.6	3.3	185
	1TZ9503-2AC43-4_A4	18.5	22	200L	978	1175	39	37	36	38	0.79	IE3	91.7	92.5	92.5	181	5.6	2.5	2.6	215
	1TZ9503-2AC53-4_A4	22	26.5	200L	978	1175	46	44	42	44	0.79	IE3	92.2	93.0	92.9	215	5.6	2.5	2.6	230
	1TZ9503-2AC63-4_A4	30	36	200L	978	1175	62	59	57	61	0.79	IE3	92.9	93.6	93.7	293	6.5	2.8	2.8	264
	1TZ9503-2BC23-4_A4	30	36	225M	982	1180	59	56	54	58	0.83	IE3	92.9	93.6	93.5	292	6.6	2.6	3.0	325
	1TZ9503-2BC63-4_A4	37	44.5	225M	985	1182	74	70	67	73	0.82	IE3	93.3	93.9	93.7	359	7.6	3.0	3.3	395
	1TZ9503-2CC23-4_A4	37	44.5	250M	985	1182	71	67	65	69	0.85	IE3	93.3	94.0	94.0	359	7.0	2.7	2.9	405
	1TZ9503-2CC63-4_A4	45	54	250M	986	1185	87	83	80	86	0.84	IE3	93.7	94.3	94.4	436	7.0	2.8	2.9	480
	1TZ9503-2DC03-4_A4	45	54	280S	988	1186	86	82	79	84	0.85	IE3	93.7	94.3	94.2	435	6.8	3.0	2.8	510
	1TZ9503-2DC23-4_A4	55	66	280M	988	1186	105	99	96	104	0.85	IE3	94.1	94.6	94.4	532	7.2	3.2	3.0	560
	1TZ9503-2DC63-4_A4	75	90	280M	988	1188	145	136	133	140	0.83	IE3	94.6	95.0	94.8	725	8.1	3.7	3.2	620
	1TZ9503-3AC03-4_A4	75	90	315S	990	1190	144	136	131	142	0.84	IE3	94.6	94.9	94.4	723	7.3	2.6	3.1	750
	1TZ9503-3AC23-4_A4	90	108	315M	991	1190	170	161	155	170	0.85	IE3	94.9	95.3	95.0	867	6.7	2.5	2.8	890
	1TZ9503-3AC43-4_A4	110	132	315L	991	1190	209	199	192	205	0.84	IE3	95.1	95.5	95.3	1060	7.2	2.8	3.0	990
	1TZ9503-3AC53-4_A4	132	158	315L	991	1190	251	240	229	245	0.84	IE3	95.4	95.9	95.8	1272	7.2	2.7	3.0	1110
	1TZ9503-3AC63-4_A4	160	192	315L	991	1190	306	290	280	300	0.83	IE3	95.6	95.8	95.4	1542	7.7	3.3	3.5	1160
	1TZ5503-3AC73-4_B4	200	315	315L	992	1194	385	365	355	320	0.82	IE3	95.8	95.9	95.6	1925	7.5	3.0	3.2	1410
	1TZ5503-3AC83-4_B4	250	315	315L	992	1194	490	465	450	405	0.81	IE3	95.8	95.9	95.6	2407	8.2	3.2	3.3	1700
	1TZ5603-3BC23-4_B4	315	355	335M	993	1194	610	580	560	500	0.82	IE3	95.8	95.8	95.3	3029	7.8	2.9	3.2	2040
	1TZ5603-3BC33-4_B4	355	355	355M	993	1194	680	640	620	560	0.83	IE3	95.8	95.9	95.5	3414	8.4	2.9	3.3	2250
	1TZ5603-3BC43-4_B4	400	355	355L	994	1194	760	720	690	620	0.84	IE3	95.8	96.0	95.8	3843	8.1	2.8	3.0	2240

Moteurs aluminium

choix entre moteurs Aluminium et Fontes

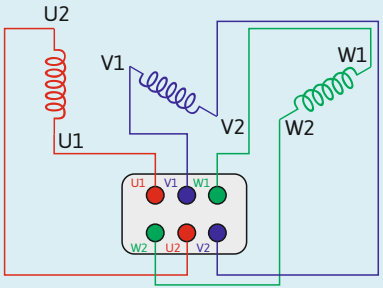
Moteurs Fontes

A partir de HA180-HA355, 3xPTC standard.

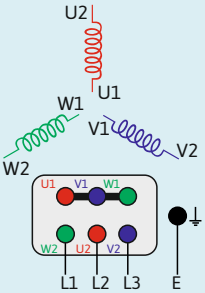


Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9003-1CD02-2_A4	2.2	2.55	132S	725	870	6.5	6.2	5.9	5.9	0.63	IE3	81.9	82.9	81.8	29	3.6	1.4	1.8	56
	1TZ9003-1CD23-4_A4	3	3.45	132M	725	870	9.0	8.5	8.2	8.0	0.61	IE3	83.5	84.2	82.7	40	3.8	1.5	2.0	65
	1TZ9003-1DD23-4_A4	4	4.55	160M	730	876	11	10	10	10	0.66	IE3	84.8	85.6	84.5	52	3.6	1.6	1.8	72
	1TZ9003-1DD33-4_A4	5.5	6.3	160M	730	876	15	14	14	14	0.66	IE3	86.2	86.9	85.7	72	3.8	1.6	1.9	86
	1TZ9003-1DD43-4_A4	7.5	8.6	160L	728	874	20	19	18	18	0.65	IE3	87.3	88.2	87.7	98	3.8	1.6	1.9	110
	1TZ9503-1ED43-4_A4	11	13.2	180L	725	870	26	24	23	25	0.74	IE3	88.6	89.7	89.6	145	5.1	2.1	2.4	190
	1TZ9503-2AD53-4_A4	15	18	200L	730	876	35	34	32	34	0.73	IE3	89.6	90.1	89.4	196	6.8	3.0	3.7	255
	1TZ9503-2BD03-4_A4	18.5	22	225S	732	878	42	40	38	40	0.75	IE3	90.1	90.6	90.0	241	5.9	2.5	3.0	270
	1TZ9503-2BD23-4_A4	22	26.5	225M	732	878	48	46	44	46	0.77	IE3	90.6	91.4	91.2	287	5.9	2.6	2.9	280
	1TZ9503-2CD23-4_A4	30	36	250M	735	882	63	60	58	61	0.79	IE3	91.3	91.8	91.5	390	6.1	2.6	3.0	370
	1TZ9503-2DD03-4_A4	37	44.5	280S	736	883	79	75	72	76	0.78	IE3	91.8	92.5	92.4	480	5.4	2.3	2.4	460
	1TZ9503-2DD23-4_A4	45	54	280M	738	886	93	88	85	90	0.80	IE3	92.2	92.8	92.6	582	5.9	2.5	2.5	550
	1TZ9503-3AD03-4_A4	55	66	315S	740	888	112	106	102	108	0.81	IE3	92.5	92.9	92.6	710	6.0	2.3	2.7	650
	1TZ9503-3AD23-4_A4	75	90	315M	738	886	151	144	139	146	0.81	IE3	93.1	93.5	93.3	970	5.9	2.3	2.7	720
	1TZ9503-3AD43-4_A4	90	108	315L	740	888	177	168	162	174	0.83	IE3	93.4	94.2	94.3	1161	5.8	2.2	2.5	860
	1TZ9503-3AD53-4_A4	110	132	315L	740	888	218	205	199	210	0.82	IE3	93.7	94.2	94.1	1419	6.7	2.7	2.9	980
	1TZ9503-3AD63-4_A4	132	158	315L	740	888	264	250	241	255	0.81	IE3	94.0	94.4	94.1	1703	7.2	2.9	3.3	1160
	1TZ5503-3AD73-4_A4	160	192	315L	741	890	325	310	300	320	0.79	IE3	94.3	94.7	94.7	2062	6.3	2.5	2.5	1420
	1TZ5503-3AD83-4_A4	200	240	315L	742	891	410	390	375	400	0.78	IE3	94.6	94.8	94.5	2574	6.7	2.7	2.9	1660
	1TZ5603-3BD13-4_B4	250	300	355M	744	893	500	475	460	490	0.80	IE3	94.6	95.0	95.0	3209	7.1	2.4	2.7	2280
	1TZ5603-3BD23-4_B4	315	380	355L	744	893	630	600	580	620	0.80	IE3	94.6	94.9	94.6	4043	7.3	2.5	3.0	2310

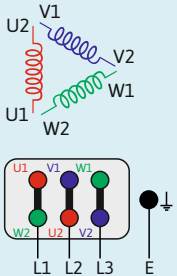
Projection schématique



Etoile:



Triangle:



MOTEURS MEZ 2 & 4 PÔLES *IE4*

Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
	3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9004-1AA43-4_A4	3	3.45	100L	2920	3515	5.9	5.7	5.4	5.6	0.86	IE4	89.1	89.8	89.4	9.8	9.0	4.0	4.9	27
	1TZ9004-1BA23-4_A4	4	4.55	112M	2950	3545	7.6	7.2	7.0	7.1	0.89	IE4	90.0	90.4	89.7	13	8.8	2.6	4.1	34
	1TZ9004-1CA03-4_A4	5.5	6.3	132S	2960	3560	11.0	10.4	10.1	10.2	0.84	IE4	90.9	90.9	89.8	18	8.6	2.0	4.6	44
	1TZ9004-1CA13-4_A4	7.5	8.6	132S	2955	3555	13.7	13.0	12.5	12.9	0.91	IE4	91.7	92.4	92.3	24	8.6	2.4	4.3	56
	1TZ9004-1DA23-4_A4	11	12.6	160M	2955	3555	20.1	19.1	18.4	19.0	0.90	IE4	92.6	92.8	92.0	36	8.6	2.9	4.2	84
	1TZ9004-1DA33-4_A4	15	17.3	160M	2955	3555	27.3	26.0	25.0	26.0	0.90	IE4	93.3	93.5	92.9	48	9.0	3.0	4.5	98
	1TZ9004-1DA43-4_A4	18.5	21.3	160L	2955	3555	33.3	31.5	30.4	31.5	0.91	IE4	93.7	94.1	93.8	60	8.9	3.1	4.3	112
	1TZ9504-1EA23-4_A4	22	24.5	180M	2950	3555	40	38	37	37	0.89	IE4	94.0	94.4	94.1	71	8.9	2.8	4.1	175
	1TZ9504-2AA43-4_A4	30	33.5	200L	2965	3560	59	55	54	52	0.83	IE4	94.5	94.8	94.4	97	7.9	2.8	4.0	222
	1TZ9504-2AA53-4_A4	37	41.5	200L	2960	3560	70	66	64	63	0.86	IE4	94.8	95.1	95.0	119	7.9	3.2	3.9	263
	1TZ9504-2BA23-4_A4	45	51	225M	2970	3570	85	81	78	78	0.85	IE4	95.0	95.0	94.4	145	8.8	3.1	4.1	330
	1TZ9504-2CA23-4_A4	55	62	250M	2978	3578	100	95	91	94	0.88	IE4	95.3	95.2	94.5	176	7.5	2.5	3.2	430
	1TZ9504-2DA03-4_A4	75	84	280S	2980	3580	134	127	123	123	0.89	IE4	95.6	95.6	95.0	240	8.4	3.0	3.5	610
	1TZ9504-2DA23-4_A4	90	101	280M	2982	3582	161	153	147	148	0.89	IE4	95.8	95.8	95.2	288	8.2	3.0	3.4	610
	1TZ9504-3AA03-4_A4	110	123	315S	2985	3585	194	184	177	182	0.90	IE4	96.0	96.1	95.7	352	8.7	2.5	3.4	750
	1TZ9504-3AA23-4_A4	132	148	315M	2988	3588	232	220	212	216	0.90	IE4	96.2	96.2	95.6	422	10.5	2.9	4.0	980
	1TZ9504-3AA43-4_A4	160	180	315L	2988	3588	275	261	252	258	0.92	IE4	96.3	96.3	95.8	511	10.3	3.3	3.9	1060
	1TZ9504-3AA53-4_A4	200	224	315L	2985	3585	343	326	314	318	0.92	IE4	96.5	96.6	96.3	640	9.9	3.6	3.8	1180
	1TZ5504-3AA63-4_A4	250	250	315L	2986	3588	448	425	410	371	0.88	IE4	96.5	96.4	95.7	800	9.3	3.0	4.2	1340
	1TZ5504-3AA73-4_A4	315	315	315L	2986	3588	571	540	523	473	0.87	IE4	96.5	96.3	95.5	1010	9.9	3.5	4.2	1520
	1TZ5604-3BA33-4_A4	355	355	355M	2988	3590	629	600	576	521	0.89	IE4	96.5	96.3	95.5	1130	8.9	2.6	4.0	2100
	1TZ5604-3BA43-4_A4	400	400	355L	2986	3590	685	650	628	574	0.92	IE4	96.5	96.4	95.9	1280	8.5	2.6	3.4	2240
	1TZ5604-3BA53-4_A4	500	500	355L	2988	3590	886	840	811	734	0.89	IE4	96.5	96.4	95.8	1600	8.9	3.0	3.8	2340
	1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9004-1AB42-2_A4	2.2	2.55	100L	1465	1765	4.7	4.5	4.3	4.4	0.8	IE4	89.5	89.6	88.3	14	8.5	3.3	4.7	30
	1TZ9004-1AB53-4_A4	3	3.45	100L	1460	1760	6.2	5.9	5.7	5.8	0.8	IE4	90.4	91.0	90.5	20	8.8	3.6	4.2	38
	1TZ9004-1BB23-4_A4	4	4.55	112M	1465	1765	8.3	7.8	7.6	7.7	0.8	IE4	91.1	91.5	91.0	26	8.3	3.0	4.3	46
	1TZ9004-1CB03-4_A4	5.5	6.3	132S	1470	1770	10.9	10.4	10.0	10.3	0.8	IE4	91.9	92.5	92.3	36	8.3	2.5	3.5	59
	1TZ9004-1CB23-4_A4	7.5	8.6	132M	1470	1770	15.2	14.4	14.0	14.2	0.81	IE4	92.6	93.1	92.7	49	7.7	2.9	4.0	62
	1TZ9004-1DB23-4_A4	11	12.6	160M	1475	1775	21.8	21.0	20.0	20.5	0.82	IE4	93.3	93.5	92.9	71	8.1	2.9	4.1	98
	1TZ9004-1DB43-4_A4	15	17.3	160L	1480	1780	30.2	29.0	27.6	28.5	0.80	IE4	93.9	94.0	93.3	97	7.8	3.4	4.3	109
	1TZ9504-1EB23-4_A4	18.5	21.3	180M	1470	1770	36.8	35.0	33.7	34.5	0.81	IE4	94.2	94.7	94.5	120	7.9	2.5	3.6	187
	1TZ9504-1EB43-4_A4	22	25.3	180L	1475	1775	44	42	40	41	0.81	IE4	94.5	95.0	94.8	142	7.7	2.8	3.8	192
	1TZ9504-2AB53-4_A4	30	34.5	200L	1475	1775	59	56	54	55	0.81	IE4	94.9	95.2	94.9	194	7.3	3.0	3.6	258
	1TZ9504-2BB03-4_A4	37	42.5	225S	1485	1782	70	67	64	66	0.84	IE4	95.2	95.5	95.2	238	8.4	3.1	3.2	345
	1TZ9504-2BB23-4_A4	45	52	225M	1485	1785	85	81	78	81	0.84	IE4	95.4	95.7	95.4	289	8.0	3.2	3.3	415
	1TZ9504-2CB23-4_A4	55	63	250M	1486	1786	102	97	93	96	0.86	IE4	95.7	95.8	95.4	353	8.2	3.0	3.3	490
	1TZ9504-2DB03-4_A4	75	86	280S	1490	1788	140	133	128	132	0.85	IE4	96.0	96.1	95.6	481	9.2	3.4	3.8	670
	1TZ9504-2DB23-4_A4	90	104	280M	1488	1788	166	157	152	158	0.86	IE4	96.1	96.4	96.2	578	8.9	2.9	3.5	730
	1TZ9504-3AB03-4_A4	110	127	315M	1491	1790	202	192	185	193	0.86	IE4	96.3	96.4	95.9	705	8.6	3.2	3.3	910
	1TZ9504-3AB23-4_A4	132	152	315M	1491	1790	239	227	219	228	0.87	IE4	96.4	96.6	96.2	845	8.7	3.5	3.3	990
	1TZ9504-3AB43-4_A4	160	184	315L	1490	1790	293	278	268	279	0.86	IE4	96.6	96.9	96.7	1025	8.8	3.2	3.4	1220
	1TZ9504-3AB53-4_A4	200	230	315L	1491	1791	366	348	335	347	0.86	IE4	96.7	96.9	96.6	1281	8.9	3.3	3.4	1300
	1TZ5504-3AB63-4_A4	250	250	315L	1490	1791	457	435	419	382	0.86	IE4	96.7	96.8	96.5	1600	7.9	2.8	3.2	1500
	1TZ5504-3AB73-4_A4	315	315	315L	1490	1792	597	570	547	493	0.83	IE4	96.7	96.7	96.3	2000	8.5	3.2	3.5	1560
	1TZ5604-3BB33-4_A4	355	355	355M	1492	1793	673	640	616	549	0.83	IE4	96.7	96.7	96.2	2250	7.9	2.8	2.8	2050
	1TZ5604-3BB43-4_A4	400	400	355L	1492	1794	767	730	703	641	0.82	IE4	96.7	96.7	96.2	2550	7.9	3.2	2.9	2080
	1TZ5604-3BB53-4_A4	500	500	355L	1490	1792	936	890	857	764	0.84	IE4	96.7	96.9	96.6	3200	7.8	3.0	2.6	2290

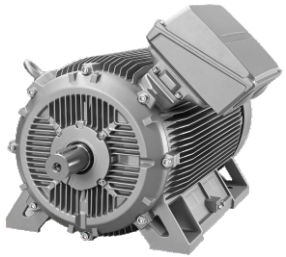
Moteurs aluminium

choix entre moteurs Aluminium et Fontes

Moteurs Fontes

A partir de HA180-HA355, 3xPTC standard.

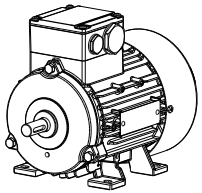
1TZ5 BG315 & BG355
IE3 & IE4



Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9002-0CD2	0.09	0.11	71M	635	790	0.56	0.53	0.51	0.56	0.63	IE1	39.0	35.7	28.6	1.35	1.8	1.8	2	5
	1TZ9002-0CD3	0.12	0.14	71M	625	785	0.87	0.82	0.79	0.83	0.68	IE1	31.0	30.5	27.1	1.83	2	1.7	1.7	6
	1TZ9002-1AD4	0.75	0.86	100L	705	855	3.01	2.86	2.75	2.85	0.62	IE1	61.2	58.1	50.5	10	3	1.9	2.2	17
	1TZ9002-1AD5	1.1	1.27	100L	690	845	4.1	3.9	3.8	3.9	0.61	IE1	66.5	65.9	61.5	15	3.2	2	2.3	22
	1TZ9002-1BD2	1.5	1.75	112M	700	845	4.9	4.7	4.5	4.7	0.66	IE1	70.2	71.2	69.4	20.5	3.3	1.6	1.9	29
	1TZ9002-1CD0	2.2	2.55	132S	715	865	6.8	6.5	6.3	6.5	0.66	IE1	74.2	74.1	71.4	29.4	3.9	1.7	2.4	37
	1TZ9002-1CD2	3	3.45	132M	715	865	9.0	8.5	8.2	8.5	0.66	IE1	77.0	77.4	75.2	40.1	3.9	1.8	2.2	44
	1TZ9002-1DD2	4	4.55	160M	720	875	11.5	10.9	10.5	10.8	0.67	IE1	79.2	79.2	76.3	53.1	3.8	1.7	2.3	60
	1TZ9002-1DD3	5.5	6.3	160M	720	870	15.1	14.4	13.8	14.3	0.68	IE1	81.4	81.9	80.3	73	4	1.6	2.2	72
	1TZ9002-1DD4	7.5	8.6	160L	715	865	20	19	18	19	0.69	IE1	83.1	83.7	82.4	100	3.8	1.7	2.2	91
	1TZ9502-1ED4	11	13.2	180L	720	868	28	27	26	28	0.7	IE1	85.0	86.2	86.0	146	5	1.9	2.5	160
	1TZ9502-1ED6	15	18	180L	718	862	36	34	33	35	0.74	IE1	86.2	87.5	87.2	200	4.7	2.1	2.3	190
	1TZ9502-2AD5	15	18	200L	718	868	35	34	32	35	0.75	IE1	86.2	87.9	88.4	200	5.5	2.5	2.9	220
	1TZ9502-2AD6	18.5	22	200L	720	870	43	40	39	42	0.76	IE1	86.9	88.2	88.4	245	6.1	2.7	3.2	250
	1TZ9502-2BD0	18.5	22	225S	730	880	42	39	38	41	0.78	IE1	86.9	87.8	87.4	242	6.1	2.7	3.2	250
	1TZ9502-2BD2	22	26.5	225M	730	878	48	46	44	48	0.79	IE1	87.4	88.3	88.1	288	5.5	2.3	2.7	270
	1TZ9502-2BD6	30	36	225M	730	875	65	62	60	65	0.79	IE1	88.3	89.1	89.1	392	5.6	2.6	2.8	320
	1TZ9502-2CD2	30	36	250M	732	878	64	61	58	63	0.81	IE1	88.3	89.2	89.2	391	5.5	2.3	2.6	370
	1TZ9502-2CD6	37	44.5	250M	730	880	76	73	70	76	0.83	IE1	88.8	89.8	89.9	484	5.7	2.3	2.6	405
	1TZ9502-2DD0	37	44.5	280S	735	882	78	74	72	78	0.81	IE1	88.8	89.7	89.7	481	5	2.1	2.1	460
	1TZ9502-2DD2	45	54	280M	735	882	95	90	87	94	0.81	IE1	89.2	90.3	90.4	585	5.3	2.1	2.1	500
	1TZ9502-2DD6	55	66	280M	736	885	117	111	107	116	0.8	IE1	89.7	90.4	90.5	714	5.7	2.5	2.5	550
	1TZ9502-3AD0	55	66	315S	740	890	117	111	107	116	0.8	IE1	89.7	90.1	89.7	710	5.7	2.1	2.6	640
	1TZ9502-3AD2	75	90	315M	738	888	156	148	143	155	0.81	IE1	90.3	90.7	90.5	971	5.9	2.3	2.7	720
	1TZ9502-3AD4	90	108	315L	738	886	180	171	165	178	0.84	IE1	90.7	91.2	91.2	1165	5.9	2.2	2.6	840
	1TZ9502-3AD5	110	132	315L	740	888	224	213	205	222	0.82	IE1	91.1	91.6	91.5	1420	6.7	2.7	2.9	1000
	1TZ9502-3AD6	132	158	315L	740	888	271	257	248	268	0.81	IE1	91.5	91.9	91.6	1704	7.2	2.9	3.3	1080

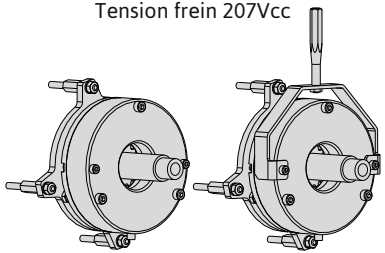
Moteurs aluminium

Moteurs Fontes



Frame Size	Brake Type	Brake Torque Nm	Current A	Input W	Moment of Inertia kgm²	Weight kg	Protection	Hand Release
63	Brake EBM 0.5 for 1TZ90/7AA motor	5	0.11	22	2.8x10-5	1.28	IP55	Op aanvraag
71	Brake EBM 0.5 for 1TZ90/7AA motor	5	0.11	22	$2.8x10^{-5}$	1.28	IP55	Op aanvraag
80	Brake EBM 1 for 1TZ90 motor	10	0.15	31	$8.6x10^{-5}$	2.35	IP55	Op aanvraag
90	Brake EBM 2 for 1TZ90 motor	20	0.15	31	$36.1x10^{-5}$	4.2	IP55	Op aanvraag
100	Brake EBM 4 for 1TZ90/5 motor	40	0.24	49	$81.7x10^{-5}$	6.7	IP55	Op aanvraag
112	Brake EBM 6.3 for 1TZ90/5 motor	63	0.30	61	$105x10^{-5}$	9.8	IP55	Op aanvraag
132	Brake EBM 10 for 1TZ90/5 motor	100	0.31	63	$274x10^{-5}$	14.3	IP55	Op aanvraag
160	Brake EBM 25 for 1TZ90/5 motor	250	0.41	84	$1060x10^{-5}$	29.5	IP55	Op aanvraag

Tension frein 207Vcc



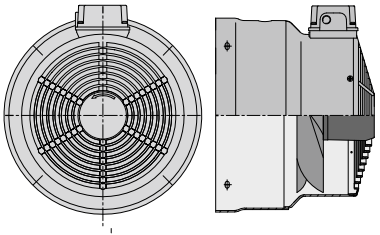
Autres tensions disponibles

Les freins mentionnés au dessus , articles de stock, peuvent être montés sur les moteurs standard de stock. Moteurs frein montage à l' usine sont disponiblen jusqu'à taille 315

Tous les freins sont livrés avec un redresseur plein pont (230Vca/207Vcc), ou sur demande avec un redresseur à demi pont (400Vca/207Vcc)

Frame Size	Motor Speed	Type	CONNECTION					
			1phase (Steinmetz)		3phase (star)		3phase (delta)	
			Max Current A	Max Input W	Max Current A	Max Input W	Max Current A	Max Input W
63	2-8pole	Externe koeling FV63	0.12	32	0.07	28	0.12	28
71	2-8pole	Externe koeling FV71	0.12	33	0.06	31	0.11	31
80	2-8pole	Externe koeling FV80	0.14	37	0.06	34	0.11	34
90	2-8pole	Externe koeling FV90	0.29	65	0.22	91	0.38	91
100	2-8pole	Externe koeling FV100	0.3	75	0.22	91	0.37	91
112	2-8pole	Externe koeling FV112	0.37	94	0.2	103	0.35	103
132	2-8pole	Externe koeling FV132	0.57	149	0.33	148	0.58	148
160	2-8pole	Externe koeling FV160	0.97	253	0.56	360	0.93	360
180	2-8pole	Externe koeling FV180	0.97	253	0.56	360	0.93	360
200	2-8pole	Externe koeling FV200	0.97	253	0.56	360	0.93	360
225	2-8pole	Externe koeling FV225	n/a	n/a	0.83	505	1.95	540
250	2-8pole	Externe koeling FV250	n/a	n/a	0.83	505	1.95	540
280	2-8pole	Externe koeling FV280	n/a	n/a	0.83	505	1.95	540
315	2pole	Externe koeling FV315	n/a	n/a	0.83	505	1.95	540
315	4-8pole	Externe koeling FV315	n/a	n/a	0.83	505	1.95	540

Ventilation forcée



Connection mono-phasé : 230-277V 50Hz et 230-277V 60Hz
Connection tri-phasés: 200-303V D / 346-525V Y 50Hz en 220-332V D / 380-575V Y 60Hz

MARQUAGE DE MOTEURS ELECTRIQUES POUR ENVIRONNEMENTS EXPLOSIVES

Conditions et subdivisions			Marquage sur équipement d'opération			
Matériaux inflammables	Conduite temporaire de l'atmosphère explosive	Classification des zones dangereuses	Group (Directive 94/9/EC)	Équipement Catégory (Directive 94/9/EC)	Équipement Group (EN60079-0)	Équipemet Protection (EN60079-0)
Gaz et vapeurs	Présence Gaz permanente	Zone 0	II	1G	II	Ga
	Présence de Gaz intermittente	Zone 1	II	2G (ou 1G)	II	Gb (ou Ga)
	Présence de Gaz épisodique	Zone 2	II	3G (ou 2G ou 1G)	II	Gc (ou Gb ou Ga)
Poussière	Présence de poussière permanente	Zone 20	II	1D	III	Da
	Présence de poussière intermittente	Zone 21	II	2D (ou 1D)	III	Db (ou Da)
	Présence de poussière épisodique	Zone 22	II	3D (ou 2D ou 1D)	III	Dc (ou Db ou Da)
Poussière de méthane carbone	Utilisation où il-y-a le risque d'explosion.	--	I	M1	I	Ma
	Déconnection où Il-y-a le risque d'explosion	--	I	M2 (ou M1)	I	Mb (ou Ma)

ATEX Moteurs Electriques

Classe Temp	Temp Max de surface
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Uilisation de l'equipement

Sans -Sans limitations
X -Condition d'utilisation spécifique
U -Certification partiélle
Conformité CE après installation de l'équipement d'opération.

Groups d'explosion
IIA; IIB; IIC

GAZ CE 0000 Ex II 2G Ex de IIB T4 Gb NB 11 ATEX 1234 X

POUSSIÈRE CE 0000 Ex II 2D Ex tb IIIB T120°C Db NB 11 ATEX 1234 X

Numéro d'identification du bureau de classification (Autorité de controle)

Marquage spécifique de protection explosive

Groups de poussières
IIIA - Particules inflamable
IIIB - Poussière non conductible
IIIC - Poussière conductible

Notified Body

Exd - Anti-déflagrant selon EN 60079-1
Exe - Securité augmanté selon EN60079-7
ExnA - Anti-étincelle selon EN 60079-15
Exde - Anti-déflagrant avec boîte-à-bornes securité augmenté
Exta, Extb, Extc - Protection poussière EN 60079-31

Température de surface maximale de l'appareil.

Pour le plupart des moteurs électriques T=125°C (température certifié)

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.37	71M	IE2	Cast iron	1TE1531-0CA22-2_A4	1TE1511-0CA22-2_A4	1TE1521-0CA22-2_A4	1TE1531-0CA22-2_A4 B30
0.55	71M	IE2	Cast iron	1TE1531-0CA32-2_A4	1TE1511-0CA32-2_A4	1TE1521-0CA32-2_A4	1TE1531-0CA32-2_A4 B30
0.75	80M	IE2	Cast iron	1TE1531-0DA22-2_A4	1TE1511-0DA22-2_A4	1TE1521-0DA22-2_A4	1TE1531-0DA22-2_A4 B30
1.1	80M	IE2	Cast iron	1TE1531-0DA32-2_A4	1TE1511-0DA32-2_A4	1TE1521-0DA32-2_A4	1TE1531-0DA32-2_A4 B30
1.5	90S	IE2	Cast iron	1TE1531-0EA02-2_A4	1TE1511-0EA02-2_A4	1TE1521-0EA02-2_A4	1TE1531-0EA02-2_A4 B30
2.2	90L	IE2	Cast iron	1TE1531-0EA42-2_A4	1TE1511-0EA42-2_A4	1TE1521-0EA42-2_A4	1TE1531-0EA42-2_A4 B30
3	100L	IE2	Cast iron	1TE1531-1AA43-4_A4	1TE1511-1AA43-4_A4	1TE1521-1AA43-4_A4	1TE1531-1AA43-4_A4 B30
4	112M	IE2	Cast iron	1TE1531-1BA23-4_A4	1TE1511-1BA23-4_A4	1TE1521-1BA23-4_A4	1TE1531-1BA23-4_A4 B30
5.5	132S	IE2	Cast iron	1TE1531-1CA03-4_A4	1TE1511-1CA03-4_A4	1TE1521-1CA03-4_A4	1TE1531-1CA03-4_A4 B30
7.5	132S	IE2	Cast iron	1TE1531-1CA13-4_A4	1TE1511-1CA13-4_A4	1TE1521-1CA13-4_A4	1TE1531-1CA13-4_A4 B30
11	160M	IE2	Cast iron	1TE1531-1DA23-4_A4	1TE1511-1DA23-4_A4	1TE1521-1DA23-4_A4	1TE1531-1DA23-4_A4 B30
15	160M	IE2	Cast iron	1TE1531-1DA33-4_A4	1TE1511-1DA33-4_A4	1TE1521-1DA33-4_A4	1TE1531-1DA33-4_A4 B30
18.5	160L	IE2	Cast iron	1TE1531-1DA43-4_A4	1TE1511-1DA43-4_A4	1TE1521-1DA43-4_A4	1TE1531-1DA43-4_A4 B30
22	180M	IE2	Cast iron	1TE1531-1EA23-4_A4	1TE1511-1EA23-4_A4	1TE1521-1EA23-4_A4	1TE1531-1EA23-4_A4 B30
30	200L	IE2	Cast iron	1TE1531-2AA43-4_A4	1TE1511-2AA43-4_A4	1TE1521-2AA43-4_A4	1TE1531-2AA43-4_A4 B30
37	200L	IE2	Cast iron	1TE1531-2AA53-4_A4	1TE1511-2AA53-4_A4	1TE1521-2AA53-4_A4	1TE1531-2AA53-4_A4 B30
45	225M	IE2	Cast iron	1TE1531-2BA23-4_A4	1TE1511-2BA23-4_A4	1TE1521-2BA23-4_A4	1TE1531-2BA23-4_A4 B30
55	250M	IE2	Cast iron	1TE1531-2CA23-4_A4	1TE1511-2CA23-4_A4	1TE1521-2CA23-4_A4	1TE1531-2CA23-4_A4 B30
75	280S	IE2	Cast iron	1TE1531-2DA03-4_A4	1TE1511-2DA03-4_A4	1TE1521-2DA03-4_A4	1TE1531-2DA03-4_A4 B30
90	280M	IE2	Cast iron	1TE1531-2DA23-4_A4	1TE1511-2DA23-4_A4	1TE1521-2DA23-4_A4	1TE1531-2DA23-4_A4 B30
110	315S	IE2	Cast iron	1TE1531-3AA03-4_A4	1TE1511-3AA03-4_A4	1TE1521-3AA03-4_A4	1TE1531-3AA03-4_A4 B30
132	315M	IE2	Cast iron	1TE1531-3AA23-4_A4	1TE1511-3AA23-4_A4	1TE1521-3AA23-4_A4	1TE1531-3AA23-4_A4 B30
160	315L	IE2	Cast iron	1TE1531-3AA43-4_A4	1TE1511-3AA43-4_A4	1TE1521-3AA43-4_A4	1TE1531-3AA43-4_A4 B30
200	315L	IE2	Cast iron	1TE1531-3AA53-4_A4	1TE1511-3AA53-4_A4	1TE1521-3AA53-4_A4	1TE1531-3AA53-4_A4 B30

EC Type Examination Certificates

ATEX	Frame sizes	Certificate No.
Zone21	71 - 90	FTZU 18 ATEX 0133
Zone21	100 - 200	FTZU 18 ATEX 0134
Zone21	225 - 315	FTZU 18 ATEX 0135

Type Examination Certificates

ATEX	Frame sizes	ATEX Certificate No.
Zone2+22	71 - 90	FTZU 18 ATEX 0136
Zone2+22	100 - 200	FTZU 18 ATEX 0137
Zone2+22	225 - 315	FTZU 18 ATEX 0138

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
1500/1800rpm, 4-pole, 50/60Hz, IP55,Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.25	71M	IE2	Cast iron	1TE1531-0CB22-2_A4	1TE1511-0CB22-2_A4	1TE1521-0CB22-2_A4	1TE1531-0CB22-2_A4 B30
0.37	71M	IE2	Cast iron	1TE1531-0CB32-2_A4	1TE1511-0CB32-2_A4	1TE1521-0CB32-2_A4	1TE1531-0CB32-2_A4 B30
0.55	80M	IE2	Cast iron	1TE1531-0DB22-2_A4	1TE1511-0DB22-2_A4	1TE1521-0DB22-2_A4	1TE1531-0DB22-2_A4 B30
0.75	80M	IE2	Cast iron	1TE1531-0DB32-2_A4	1TE1511-0DB32-2_A4	1TE1521-0DB32-2_A4	1TE1531-0DB32-2_A4 B30
1.1	90S	IE2	Cast iron	1TE1531-0EB02-2_A4	1TE1511-0EB02-2_A4	1TE1521-0EB02-2_A4	1TE1531-0EB02-2_A4 B30
1.5	90L	IE2	Cast iron	1TE1531-0EB42-2_A4	1TE1511-0EB42-2_A4	1TE1521-0EB42-2_A4	1TE1531-0EB42-2_A4 B30
2.2	100L	IE2	Cast iron	1TE1531-1AB42-2_A4	1TE1511-1AB42-2_A4	1TE1521-1AB42-2_A4	1TE1531-1AB42-2_A4 B30
3	100L	IE2	Cast iron	1TE1531-1AB53-4_A4	1TE1511-1AB53-4_A4	1TE1521-1AB53-4_A4	1TE1531-1AB53-4_A4 B30
4	112M	IE2	Cast iron	1TE1531-1BB23-4_A4	1TE1511-1BB23-4_A4	1TE1521-1BB23-4_A4	1TE1531-1BB23-4_A4 B30
5.5	132S	IE2	Cast iron	1TE1531-1CB03-4_A4	1TE1511-1CB03-4_A4	1TE1521-1CB03-4_A4	1TE1531-1CB03-4_A4 B30
7.5	132M	IE2	Cast iron	1TE1531-1CB23-4_A4	1TE1511-1CB23-4_A4	1TE1521-1CB23-4_A4	1TE1531-1CB23-4_A4 B30
11	160M	IE2	Cast iron	1TE1531-1DB23-4_A4	1TE1511-1DB23-4_A4	1TE1521-1DB23-4_A4	1TE1531-1DB23-4_A4 B30
15	160L	IE2	Cast iron	1TE1531-1DB43-4_A4	1TE1511-1DB43-4_A4	1TE1521-1DB43-4_A4	1TE1531-1DB43-4_A4 B30
18.5	180M	IE2	Cast iron	1TE1531-1EB23-4_A4	1TE1511-1EB23-4_A4	1TE1521-1EB23-4_A4	1TE1531-1EB23-4_A4 B30
22	180L	IE2	Cast iron	1TE1531-1EB43-4_A4	1TE1511-1EB43-4_A4	1TE1521-1EB43-4_A4	1TE1531-1EB43-4_A4 B30
30	200L	IE2	Cast iron	1TE1531-2AB53-4_A4	1TE1511-2AB53-4_A4	1TE1521-2AB53-4_A4	1TE1531-2AB53-4_A4 B30
37	225S	IE2	Cast iron	1TE1531-2BB03-4_A4	1TE1511-2BB03-4_A4	1TE1521-2BB03-4_A4	1TE1531-2BB03-4_A4 B30
45	225M	IE2	Cast iron	1TE1531-2BB23-4_A4	1TE1511-2BB23-4_A4	1TE1521-2BB23-4_A4	1TE1531-2BB23-4_A4 B30
55	250M	IE2	Cast iron	1TE1531-2CB23-4_A4	1TE1511-2CB23-4_A4	1TE1521-2CB23-4_A4	1TE1531-2CB23-4_A4 B30
75	280S	IE2	Cast iron	1TE1531-2DB03-4_A4	1TE1511-2DB03-4_A4	1TE1521-2DB03-4_A4	1TE1531-2DB03-4_A4 B30
90	280M	IE2	Cast iron	1TE1531-2DB23-4_A4	1TE1511-2DB23-4_A4	1TE1521-2DB23-4_A4	1TE1531-2DB23-4_A4 B30
110	315S	IE2	Cast iron	1TE1531-3AB03-4_A4	1TE1511-3AB03-4_A4	1TE1521-3AB03-4_A4	1TE1531-3AB03-4_A4 B30
132	315M	IE2	Cast iron	1TE1531-3AB23-4_A4	1TE1511-3AB23-4_A4	1TE1521-3AB23-4_A4	1TE1531-3AB23-4_A4 B30
160	315L	IE2	Cast iron	1TE1531-3AB43-4_A4	1TE1511-3AB43-4_A4	1TE1521-3AB43-4_A4	1TE1531-3AB43-4_A4 B30
200	315L	IE2	Cast iron	1TE1531-3AB53-4_A4	1TE1511-3AB53-4_A4	1TE1521-3AB53-4_A4	1TE1531-3AB53-4_A4 B30

Spécifications standard des moteurs tri-phasés ATEX:

Output [kW]	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315
Voltage	230/400V 50Hz, 460VY 60Hz									400/690V 50Hz, 460VD 60Hz																			
Conditions	Ambient Temperature -20°C to +40°C. Altitude up to 1000 metres above sea level. S1 Duty Cycle (continuous duty)																												

Autres tensions et températures ambiantes disponibles.

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.18	71M	IE2	Cast iron	1TE1531-0CC22-2_A4	1TE1511-0CC22-2_A4	1TE1521-0CC22-2_A4	1TE1531-0CC22-2_A4 B30
0.25	71M	IE2	Cast iron	1TE1531-0CC32-2_A4	1TE1511-0CC32-2_A4	1TE1521-0CC32-2_A4	1TE1531-0CC32-2_A4 B30
0.37	80M	IE2	Cast iron	1TE1531-0DC22-2_A4	1TE1511-0DC22-2_A4	1TE1521-0DC22-2_A4	1TE1531-0DC22-2_A4 B30
0.55	80M	IE2	Cast iron	1TE1531-0DC32-2_A4	1TE1511-0DC32-2_A4	1TE1521-0DC32-2_A4	1TE1531-0DC32-2_A4 B30
0.75	90S	IE2	Cast iron	1TE1531-0EC02-2_A4	1TE1511-0EC02-2_A4	1TE1521-0EC02-2_A4	1TE1531-0EC02-2_A4 B30
1.1	90L	IE2	Cast iron	1TE1531-0EC42-2_A4	1TE1511-0EC42-2_A4	1TE1521-0EC42-2_A4	1TE1531-0EC42-2_A4 B30
1.5	100L	IE2	Cast iron	1TE1531-1AC42-2_A4	1TE1511-1AC42-2_A4	1TE1521-1AC42-2_A4	1TE1531-1AC42-2_A4 B30
2.2	112M	IE2	Cast iron	1TE1531-1BC22-2_A4	1TE1511-1BC22-2_A4	1TE1521-1BC22-2_A4	1TE1531-1BC22-2_A4 B30
3	132S	IE2	Cast iron	1TE1531-1CC03-4_A4	1TE1511-1CC03-4_A4	1TE1521-1CC03-4_A4	1TE1531-1CC03-4_A4 B30
4	132M	IE2	Cast iron	1TE1531-1CC23-4_A4	1TE1511-1CC23-4_A4	1TE1521-1CC23-4_A4	1TE1531-1CC23-4_A4 B30
5.5	132M	IE2	Cast iron	1TE1531-1CC33-4_A4	1TE1511-1CC33-4_A4	1TE1521-1CC33-4_A4	1TE1531-1CC33-4_A4 B30
7.5	160M	IE2	Cast iron	1TE1531-1DC23-4_A4	1TE1511-1DC23-4_A4	1TE1521-1DC23-4_A4	1TE1531-1DC23-4_A4 B30
11	160L	IE2	Cast iron	1TE1531-1DC43-4_A4	1TE1511-1DC43-4_A4	1TE1521-1DC43-4_A4	1TE1531-1DC43-4_A4 B30
15	180L	IE2	Cast iron	1TE1531-1EC43-4_A4	1TE1511-1EC43-4_A4	1TE1521-1EC43-4_A4	1TE1531-1EC43-4_A4 B30
18.5	200L	IE2	Cast iron	1TE1531-2AC43-4_A4	1TE1511-2AC43-4_A4	1TE1521-2AC43-4_A4	1TE1531-2AC43-4_A4 B30
22	200L	IE2	Cast iron	1TE1531-2AC53-4_A4	1TE1511-2AC53-4_A4	1TE1521-2AC53-4_A4	1TE1531-2AC53-4_A4 B30
30	225M	IE2	Cast iron	1TE1531-2BC23-4_A4	1TE1511-2BC23-4_A4	1TE1521-2BC23-4_A4	1TE1531-2BC23-4_A4 B30
37	250M	IE2	Cast iron	1TE1531-2CC23-4_A4	1TE1511-2CC23-4_A4	1TE1521-2CC23-4_A4	1TE1531-2CC23-4_A4 B30
45	280S	IE2	Cast iron	1TE1531-2DC03-4_A4	1TE1511-2DC03-4_A4	1TE1521-2DC03-4_A4	1TE1531-2DC03-4_A4 B30
55	280M	IE2	Cast iron	1TE1531-2DC23-4_A4	1TE1511-2DC23-4_A4	1TE1521-2DC23-4_A4	1TE1531-2DC23-4_A4 B30
75	315S	IE2	Cast iron	1TE1531-3AC03-4_A4	1TE1511-3AC03-4_A4	1TE1521-3AC03-4_A4	1TE1531-3AC03-4_A4 B30
90	315M	IE2	Cast iron	1TE1531-3AC23-4_A4	1TE1511-3AC23-4_A4	1TE1521-3AC23-4_A4	1TE1531-3AC23-4_A4 B30
110	315L	IE2	Cast iron	1TE1531-3AC43-4_A4	1TE1511-3AC43-4_A4	1TE1521-3AC43-4_A4	1TE1531-3AC43-4_A4 B30
132	315L	IE2	Cast iron	1TE1531-3AC53-4_A4	1TE1511-3AC53-4_A4	1TE1521-3AC53-4_A4	1TE1531-3AC53-4_A4 B30
160	315L	IE2	Cast iron	1TE1531-3AC63-4_A4	1TE1511-3AC63-4_A4	1TE1521-3AC63-4_A4	1TE1531-3AC63-4_A4 B30

EC Type Examination Certificates

ATEX	Frame sizes	Certificate No.
Zone21	71 - 90	FTZU 18 ATEX 0133
Zone21	100 - 200	FTZU 18 ATEX 0134
Zone21	225 - 315	FTZU 18 ATEX 0135

Type Examination Certificates

ATEX	Frame sizes	ATEX Certificate No.
Zone2+22	71 - 90	FTZU 18 ATEX 0136
Zone2+22	100 - 200	FTZU 18 ATEX 0137
Zone2+22	225 - 315	FTZU 18 ATEX 0138

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.09	71M	IE2	Cast iron	1TE1531-0CD22-2_A4	1TE1511-0CD22-2_A4	1TE1521-0CD22-2_A4	1TE1531-0CD22-2_A4 B30
0.12	71M	IE2	Cast iron	1TE1531-0CD32-2_A4	1TE1511-0CD32-2_A4	1TE1521-0CD32-2_A4	1TE1531-0CD32-2_A4 B30
0.18	80M	IE2	Cast iron	1TE1531-0DD22-2_A4	1TE1511-0DD22-2_A4	1TE1521-0DD22-2_A4	1TE1531-0DD22-2_A4 B30
0.25	80M	IE2	Cast iron	1TE1531-0DD32-2_A4	1TE1511-0DD32-2_A4	1TE1521-0DD32-2_A4	1TE1531-0DD32-2_A4 B30
0.37	90S	IE2	Cast iron	1TE1531-0ED02-2_A4	1TE1511-0ED02-2_A4	1TE1521-0ED02-2_A4	1TE1531-0ED02-2_A4 B30
0.55	90L	IE2	Cast iron	1TE1531-0ED42-2_A4	1TE1511-0ED42-2_A4	1TE1521-0ED42-2_A4	1TE1531-0ED42-2_A4 B30
0.75	100L	IE2	Cast iron	1TE1531-1AD42-2_A4	1TE1511-1AD42-2_A4	1TE1521-1AD42-2_A4	1TE1531-1AD42-2_A4 B30
1.1	100L	IE2	Cast iron	1TE1531-1AD52-2_A4	1TE1511-1AD52-2_A4*	1TE1521-1AD52-2_A4*	1TE1531-1AD52-2_A4 B30
1.5	112M	IE2	Cast iron	1TE1531-1BD22-2_A4	1TE1511-1BD22-2_A4	1TE1521-1BD22-2_A4	1TE1531-1BD22-2_A4 B30
2.2	132S	IE2	Cast iron	1TE1531-1CD02-2_A4	1TE1511-1CD02-2_A4	1TE1521-1CD02-2_A4	1TE1531-1CD02-2_A4 B30
3	132M	IE2	Cast iron	1TE1531-1CD23-4_A4	1TE1511-1CD23-4_A4	1TE1521-1CD23-4_A4	1TE1531-1CD23-4_A4 B30
4	160M	IE2	Cast iron	1TE1531-1DD23-4_A4	1TE1511-1DD23-4_A4	1TE1521-1DD23-4_A4	1TE1531-1DD23-4_A4 B30
5.5	160M	IE2	Cast iron	1TE1531-1DD33-4_A4	1TE1511-1DD33-4_A4	1TE1521-1DD33-4_A4	1TE1531-1DD33-4_A4 B30
7.5	160L	IE2	Cast iron	1TE1531-1DD43-4_A4	1TE1511-1DD43-4_A4	1TE1521-1DD43-4_A4	1TE1531-1DD43-4_A4 B30
11	180L	IE2	Cast iron	1TE1531-1ED43-4_A4	1TE1511-1ED43-4_A4	1TE1521-1ED43-4_A4	1TE1531-1ED43-4_A4 B30
15	200L	IE2	Cast iron	1TE1531-2AD53-4_A4	1TE1511-2AD53-4_A4	1TE1521-2AD53-4_A4	1TE1531-2AD53-4_A4 B30
18.5	225S	IE2	Cast iron	1TE1531-2BD03-4_A4	1TE1511-2BD03-4_A4	1TE1521-2BD03-4_A4	1TE1531-2BD03-4_A4 B30
22	225M	IE2	Cast iron	1TE1531-2BD23-4_A4	1TE1511-2BD23-4_A4	1TE1521-2BD23-4_A4	1TE1531-2BD23-4_A4 B30
30	250M	IE2	Cast iron	1TE1531-2CD23-4_A4	1TE1511-2CD23-4_A4	1TE1521-2CD23-4_A4	1TE1531-2CD23-4_A4 B30
37	280S	IE2	Cast iron	1TE1531-2DD03-4_A4	1TE1511-2DD03-4_A4	1TE1521-2DD03-4_A4	1TE1531-2DD03-4_A4 B30
45	280M	IE2	Cast iron	1TE1531-2DD23-4_A4	1TE1511-2DD23-4_A4	1TE1521-2DD23-4_A4	1TE1531-2DD23-4_A4 B30
55	315S	IE2	Cast iron	1TE1531-3AD03-4_A4	1TE1511-3AD03-4_A4	1TE1521-3AD03-4_A4	1TE1531-3AD03-4_A4 B30
75	315M	IE2	Cast iron	1TE1531-3AD23-4_A4	1TE1511-3AD23-4_A4	1TE1521-3AD23-4_A4	1TE1531-3AD23-4_A4 B30
90	315L	IE2	Cast iron	1TE1531-3AD43-4_A4	1TE1511-3AD43-4_A4	1TE1521-3AD43-4_A4	1TE1531-3AD43-4_A4 B30
110	315L	IE2	Cast iron	1TE1531-3AD53-4_A4	1TE1511-3AD53-4_A4	1TE1521-3AD53-4_A4	1TE1531-3AD53-4_A4 B30
132	315L	IE2	Cast iron	1TE1531-3AD63-4_A4	1TE1511-3AD63-4_A4*	1TE1521-3AD63-4_A4*	1TE1531-3AD63-4_A4 B30

*[Ex] II 2D Ex tb IIIC T130°C Db *[Ex] II 3D Ex tc IIIB T130°C Dc

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.37	71M	IE3	Cast iron	1TE1533-0CA22-2_A4	1TE1513-0CA22-2_A4	1TE1523-0CA22-2_A4	1TE1533-0CA22-2_A4 B30
0.55	71M	IE3	Cast iron	1TE1533-0CA32-2_A4	1TE1513-0CA32-2_A4	1TE1523-0CA32-2_A4	1TE1533-0CA32-2_A4 B30
0.75	80M	IE3	Cast iron	1TE1533-0DA22-2_A4	1TE1513-0DA22-2_A4	1TE1523-0DA22-2_A4	1TE1533-0DA22-2_A4 B30
1.1	80M	IE3	Cast iron	1TE1533-0DA32-2_A4	1TE1513-0DA32-2_A4	1TE1523-0DA32-2_A4	1TE1533-0DA32-2_A4 B30
1.5	90S	IE3	Cast iron	1TE1533-0EA02-2_A4	1TE1513-0EA02-2_A4	1TE1523-0EA02-2_A4	1TE1533-0EA02-2_A4 B30
2.2	90L	IE3	Cast iron	1TE1533-0EA42-2_A4	1TE1513-0EA42-2_A4	1TE1523-0EA42-2_A4	1TE1533-0EA42-2_A4 B30
3	100L	IE3	Cast iron	1TE1533-1AA43-4_A4	1TE1513-1AA43-4_A4	1TE1523-1AA43-4_A4	1TE1533-1AA43-4_A4 B30
4	112M	IE3	Cast iron	1TE1533-1BA23-4_A4	1TE1513-1BA23-4_A4	1TE1523-1BA23-4_A4	1TE1533-1BA23-4_A4 B30
5.5	132S	IE3	Cast iron	1TE1533-1CA03-4_A4	1TE1513-1CA03-4_A4	1TE1523-1CA03-4_A4	1TE1533-1CA03-4_A4 B30
7.5	132S	IE3	Cast iron	1TE1533-1CA13-4_A4	1TE1513-1CA13-4_A4	1TE1523-1CA13-4_A4	1TE1533-1CA13-4_A4 B30
11	160M	IE3	Cast iron	1TE1533-1DA23-4_A4	1TE1513-1DA23-4_A4	1TE1523-1DA23-4_A4	1TE1533-1DA23-4_A4 B30
15	160M	IE3	Cast iron	1TE1533-1DA33-4_A4	1TE1513-1DA33-4_A4	1TE1523-1DA33-4_A4	1TE1533-1DA33-4_A4 B30
18.5	160L	IE3	Cast iron	1TE1533-1DA43-4_A4	1TE1513-1DA43-4_A4	1TE1523-1DA43-4_A4	1TE1533-1DA43-4_A4 B30
22	180M	IE3	Cast iron	1TE1533-1EA23-4_A4	1TE1513-1EA23-4_A4	1TE1523-1EA23-4_A4	1TE1533-1EA23-4_A4 B30
30	200L	IE3	Cast iron	1TE1533-2AA43-4_A4	1TE1513-2AA43-4_A4	1TE1523-2AA43-4_A4	1TE1533-2AA43-4_A4 B30
37	200L	IE3	Cast iron	1TE1533-2AA53-4_A4	1TE1513-2AA53-4_A4	1TE1523-2AA53-4_A4	1TE1533-2AA53-4_A4 B30
45	225M	IE3	Cast iron	1TE1533-2BA23-4_A4	1TE1513-2BA23-4_A4	1TE1523-2BA23-4_A4	1TE1533-2BA23-4_A4 B30
55	250M	IE3	Cast iron	1TE1533-2CA23-4_A4	1TE1513-2CA23-4_A4	1TE1523-2CA23-4_A4	1TE1533-2CA23-4_A4 B30
75	280S	IE3	Cast iron	1TE1533-2DA03-4_A4	1TE1513-2DA03-4_A4	1TE1523-2DA03-4_A4	1TE1533-2DA03-4_A4 B30
90	280M	IE3	Cast iron	1TE1533-2DA23-4_A4	1TE1513-2DA23-4_A4	1TE1523-2DA23-4_A4	1TE1533-2DA23-4_A4 B30
110	315S	IE3	Cast iron	1TE1533-3AA03-4_A4	1TE1513-3AA03-4_A4	1TE1523-3AA03-4_A4	1TE1533-3AA03-4_A4 B30
132	315M	IE3	Cast iron	1TE1533-3AA23-4_A4	1TE1513-3AA23-4_A4	1TE1523-3AA23-4_A4	1TE1533-3AA23-4_A4 B30
160	315L	IE3	Cast iron	1TE1533-3AA43-4_A4	1TE1513-3AA43-4_A4	1TE1523-3AA43-4_A4	1TE1533-3AA43-4_A4 B30
200	315L	IE3	Cast iron	1TE1533-3AA53-4_A4	1TE1513-3AA53-4_A4	1TE1523-3AA53-4_A4	1TE1533-3AA53-4_A4 B30

EC Type Examination Certificates

ATEX	Frame sizes	Certificate No.
Zone21	71 - 90	FTZU 18 ATEX 0133
Zone21	100 - 200	FTZU 18 ATEX 0134
Zone21	225 - 315	FTZU 18 ATEX 0135

Type Examination Certificates

ATEX	Frame sizes	ATEX Certificate No.
Zone2+22	71 - 90	FTZU 18 ATEX 0136
Zone2+22	100 - 200	FTZU 18 ATEX 0137
Zone2+22	225 - 315	FTZU 18 ATEX 0138

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
1500/1800rpm, 4-pole, 50/60Hz, IP55,Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.25	71M	IE3	Cast iron	1TE1533-0CB22-2_A4	1TE1513-0CB22-2_A4	1TE1523-0CB22-2_A4	1TE1533-0CB22-2_A4 B30
0.37	71M	IE3	Cast iron	1TE1533-0CB32-2_A4	1TE1513-0CB32-2_A4	1TE1523-0CB32-2_A4	1TE1533-0CB32-2_A4 B30
0.55	80M	IE3	Cast iron	1TE1533-0DB22-2_A4	1TE1513-0DB22-2_A4	1TE1523-0DB22-2_A4	1TE1533-0DB22-2_A4 B30
0.75	80M	IE3	Cast iron	1TE1533-0DB32-2_A4	1TE1513-0DB32-2_A4	1TE1523-0DB32-2_A4	1TE1533-0DB32-2_A4 B30
1.1	90S	IE3	Cast iron	1TE1533-0EB02-2_A4	1TE1513-0EB02-2_A4	1TE1523-0EB02-2_A4	1TE1533-0EB02-2_A4 B30
1.5	90L	IE3	Cast iron	1TE1533-0EB42-2_A4	1TE1513-0EB42-2_A4	1TE1523-0EB42-2_A4	1TE1533-0EB42-2_A4 B30
2.2	100L	IE3	Cast iron	1TE1533-1AB42-2_A4	1TE1513-1AB42-2_A4	1TE1523-1AB42-2_A4	1TE1533-1AB42-2_A4 B30
3	100L	IE3	Cast iron	1TE1533-1AB53-4_A4	1TE1513-1AB53-4_A4	1TE1523-1AB53-4_A4	1TE1533-1AB53-4_A4 B30
4	112M	IE3	Cast iron	1TE1533-1BB23-4_A4	1TE1513-1BB23-4_A4	1TE1523-1BB23-4_A4	1TE1533-1BB23-4_A4 B30
5.5	132S	IE3	Cast iron	1TE1533-1CB03-4_A4	1TE1513-1CB03-4_A4	1TE1523-1CB03-4_A4	1TE1533-1CB03-4_A4 B30
7.5	132M	IE3	Cast iron	1TE1533-1CB23-4_A4	1TE1513-1CB23-4_A4	1TE1523-1CB23-4_A4	1TE1533-1CB23-4_A4 B30
11	160M	IE3	Cast iron	1TE1533-1DB23-4_A4	1TE1513-1DB23-4_A4	1TE1523-1DB23-4_A4	1TE1533-1DB23-4_A4 B30
15	160L	IE3	Cast iron	1TE1533-1DB43-4_A4	1TE1513-1DB43-4_A4	1TE1523-1DB43-4_A4	1TE1533-1DB43-4_A4 B30
18.5	180M	IE3	Cast iron	1TE1533-1EB23-4_A4	1TE1513-1EB23-4_A4	1TE1523-1EB23-4_A4	1TE1533-1EB23-4_A4 B30
22	180L	IE3	Cast iron	1TE1533-1EB43-4_A4	1TE1513-1EB43-4_A4	1TE1523-1EB43-4_A4	1TE1533-1EB43-4_A4 B30
30	200L	IE3	Cast iron	1TE1533-2AB53-4_A4	1TE1513-2AB53-4_A4	1TE1523-2AB53-4_A4	1TE1533-2AB53-4_A4 B30
37	225S	IE3	Cast iron	1TE1533-2BB03-4_A4	1TE1513-2BB03-4_A4	1TE1523-2BB03-4_A4	1TE1533-2BB03-4_A4 B30
45	225M	IE3	Cast iron	1TE1533-2BB23-4_A4	1TE1513-2BB23-4_A4	1TE1523-2BB23-4_A4	1TE1533-2BB23-4_A4 B30
55	250M	IE3	Cast iron	1TE1533-2CB23-4_A4	1TE1513-2CB23-4_A4	1TE1523-2CB23-4_A4	1TE1533-2CB23-4_A4 B30
75	280S	IE3	Cast iron	1TE1533-2DB03-4_A4	1TE1513-2DB03-4_A4	1TE1523-2DB03-4_A4	1TE1533-2DB03-4_A4 B30
90	280M	IE3	Cast iron	1TE1533-2DB23-4_A4	1TE1513-2DB23-4_A4	1TE1523-2DB23-4_A4	1TE1533-2DB23-4_A4 B30
110	315S	IE3	Cast iron	1TE1533-3AB03-4_A4	1TE1513-3AB03-4_A4	1TE1523-3AB03-4_A4	1TE1533-3AB03-4_A4 B30
132	315M	IE3	Cast iron	1TE1533-3AB23-4_A4	1TE1513-3AB23-4_A4	1TE1523-3AB23-4_A4	1TE1533-3AB23-4_A4 B30
160	315L	IE3	Cast iron	1TE1533-3AB43-4_A4	1TE1513-3AB43-4_A4	1TE1523-3AB43-4_A4	1TE1533-3AB43-4_A4 B30
200	315L	IE3	Cast iron	1TE1533-3AB53-4_A4	1TE1513-3AB53-4_A4	1TE1523-3AB53-4_A4	1TE1533-3AB53-4_A4 B30

Power Output kW	Frame	Eff Class	Material	Motor Type Zone2	Motor Type Zone21	Motor Type Zone22	Motor Type Zone2+22
				[Ex] II 3G Ex nA IIC T3 Gc	[Ex] II 2D Ex tb IIIC T120°C Db	[Ex] II 3D Ex tc IIIB T120°C Dc	[Ex] II 3GD Ex nA IIC T3 Gc & Ex tc IIIB T120°C Dc
1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B, Standard voltage: up to 2.2kW: 230/400V 50Hz 460VY 60Hz; from 3kW 400/690V 50Hz 460VD 60Hz							
0.18	71M	IE3	Cast iron	1TE1533-0CC22-2_A4	1TE1513-0CC22-2_A4	1TE1523-0CC22-2_A4	1TE1533-0CC22-2_A4 B30
0.25	71M	IE3	Cast iron	1TE1533-0CC32-2_A4	1TE1513-0CC32-2_A4	1TE1523-0CC32-2_A4	1TE1533-0CC32-2_A4 B30
0.37	80M	IE3	Cast iron	1TE1533-0DC22-2_A4	1TE1513-0DC22-2_A4	1TE1523-0DC22-2_A4	1TE1533-0DC22-2_A4 B30
0.55	80M	IE3	Cast iron	1TE1533-0DC32-2_A4	1TE1513-0DC32-2_A4	1TE1523-0DC32-2_A4	1TE1533-0DC32-2_A4 B30
0.75	90S	IE3	Cast iron	1TE1533-0EC02-2_A4	1TE1513-0EC02-2_A4	1TE1523-0EC02-2_A4	1TE1533-0EC02-2_A4 B30
1.1	90L	IE3	Cast iron	1TE1533-0EC42-2_A4	1TE1513-0EC42-2_A4	1TE1523-0EC42-2_A4	1TE1533-0EC42-2_A4 B30
1.5	100L	IE3	Cast iron	1TE1533-1AC42-2_A4	1TE1513-1AC42-2_A4	1TE1523-1AC42-2_A4	1TE1533-1AC42-2_A4 B30
2.2	112M	IE3	Cast iron	1TE1533-1BC22-2_A4	1TE1513-1BC22-2_A4	1TE1523-1BC22-2_A4	1TE1533-1BC22-2_A4 B30
3	132S	IE3	Cast iron	1TE1533-1CC03-4_A4	1TE1513-1CC03-4_A4	1TE1523-1CC03-4_A4	1TE1533-1CC03-4_A4 B30
4	132M	IE3	Cast iron	1TE1533-1CC23-4_A4	1TE1513-1CC23-4_A4	1TE1523-1CC23-4_A4	1TE1533-1CC23-4_A4 B30
5.5	132M	IE3	Cast iron	1TE1533-1CC33-4_A4	1TE1513-1CC33-4_A4	1TE1523-1CC33-4_A4	1TE1533-1CC33-4_A4 B30
7.5	160M	IE3	Cast iron	1TE1533-1DC23-4_A4	1TE1513-1DC23-4_A4	1TE1523-1DC23-4_A4	1TE1533-1DC23-4_A4 B30
11	160L	IE3	Cast iron	1TE1533-1DC43-4_A4	1TE1513-1DC43-4_A4	1TE1523-1DC43-4_A4	1TE1533-1DC43-4_A4 B30
15	180L	IE3	Cast iron	1TE1533-1EC43-4_A4	1TE1513-1EC43-4_A4	1TE1523-1EC43-4_A4	1TE1533-1EC43-4_A4 B30
18.5	200L	IE3	Cast iron	1TE1533-2AC43-4_A4	1TE1513-2AC43-4_A4	1TE1523-2AC43-4_A4	1TE1533-2AC43-4_A4 B30
22	200L	IE3	Cast iron	1TE1533-2AC53-4_A4	1TE1513-2AC53-4_A4	1TE1523-2AC53-4_A4	1TE1533-2AC53-4_A4 B30
30	225M	IE3	Cast iron	1TE1533-2BC23-4_A4	1TE1513-2BC23-4_A4	1TE1523-2BC23-4_A4	1TE1533-2BC23-4_A4 B30
37	250M	IE3	Cast iron	1TE1533-2CC23-4_A4	1TE1513-2CC23-4_A4	1TE1523-2CC23-4_A4	1TE1533-2CC23-4_A4 B30
45	280S	IE3	Cast iron	1TE1533-2DC03-4_A4	1TE1513-2DC03-4_A4	1TE1523-2DC03-4_A4	1TE1533-2DC03-4_A4 B30
55	280M	IE3	Cast iron	1TE1533-2DC23-4_A4	1TE1513-2DC23-4_A4	1TE1523-2DC23-4_A4	1TE1533-2DC23-4_A4 B30
75	315S	IE3	Cast iron	1TE1533-3AC03-4_A4	1TE1513-3AC03-4_A4	1TE1523-3AC03-4_A4	1TE1533-3AC03-4_A4 B30
90	315M	IE3	Cast iron	1TE1533-3AC23-4_A4	1TE1513-3AC23-4_A4	1TE1523-3AC23-4_A4	1TE1533-3AC23-4_A4 B30
110	315L	IE3	Cast iron	1TE1533-3AC43-4_A4	1TE1513-3AC43-4_A4	1TE1523-3AC43-4_A4	1TE1533-3AC43-4_A4 B30
132	315L	IE3	Cast iron	1TE1533-3AC53-4_A4	1TE1513-3AC53-4_A4	1TE1523-3AC53-4_A4	1TE1533-3AC53-4_A4 B30
160	315L	IE3	Cast iron	1TE1533-3AC63-4_A4	1TE1513-3AC63-4_A4	1TE1523-3AC63-4_A4	1TE1533-3AC63-4_A4 B30

EC Type Examination Certificates

ATEX	Frame sizes	Certificate No.
Zone21	71 - 90	FTZU 18 ATEX 0133
Zone21	100 - 200	FTZU 18 ATEX 0134
Zone21	225 - 315	FTZU 18 ATEX 0135

Type Examination Certificates

ATEX	Frame sizes	ATEX Certificate No.
Zone2+22	71 - 90	FTZU 18 ATEX 0136
Zone2+22	100 - 200	FTZU 18 ATEX 0137
Zone2+22	225 - 315	FTZU 18 ATEX 0138

1. Général
   Le système de peinture standard s'utilise mondialement selon le standard IEC 721-2-1 de 1982.Le système résiste contre des produits chimique agressive. La résistance à la chaleur est 120°C en permanence et 140°C en court terme.

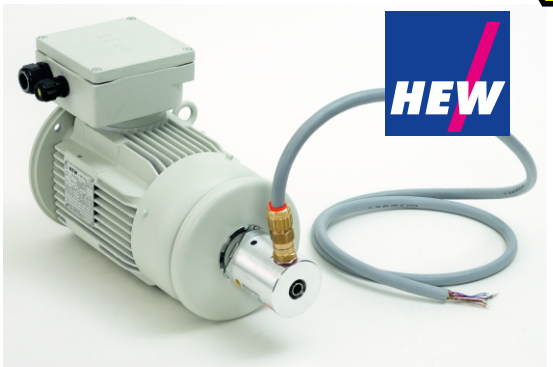
2. Prétraitement surface
   a. Les pièces en fonte et acier sont sablés (taille des grains entre 0.9 et 1,2mm) Les surfaces en acier sont nettoyé à une pureté SA3(métal clair), les pièces en fonte jusqu'à SA2 ½ (métal propre).
   b. Les pièces en acier sont dégraissées et phosphatées.
   c. Les pièces en alumium sont dégraissées et passivées.

3. Système de peinture
   a. Moteurs aluminium: peinture standard mondialement selon le standard IEC 721-2-1. Les moteurs à carcasse aluminium ont une couche de finition de résine epoxy deux composants (épaisseur 30µm). Les pièces en fonte et en acier sont traitées avec une couche de fond et une couche de finition en résine époxy (épaisseur 30µm) épaisseur totale : 30/60µm.
   b. Moteurs Fonte: Système de peinture standard selon le standard IEC 721-2-1. Autres pièces en fonte, et acier ont une couche de fond en résine Acryl (rouge/brun), séché à épaisseur20-30µm, et une couche de finition résine Acryl (RAL7030 de standard), séché à épaisseur 30µm. épaisseur totale = 60µm.

Moteurs zone 1 Ⓔx II 2G Ex d IIC T4 Gb or Ⓔx II 2G Ex de IIC T4 Gb

Série de moteurs HEW (fabrication Allemagne) livrables avec délais court.

- Moteurs ATEX zone 1 avec certification PTB
- Certification pour max 60°C sans déclasser.
  Disponible en Exde [II 2G Ex de IIC T4 Gb]
  Moteur Anti-déflagrand, B.A.B. sécurité augmentée.
- Disponible en Exd [II 2G Ex d IIC T4 Gb]
  Le moteur et la boite à bornes sont anti-déflagrant.
- Puissances: 0.09 kW à 200 kW, 2pôle, 4pôle, 6pôle, 8pôle
- Hauteur d'axe : 71-315
- Freins ATEX disponibles
- Ventilations forcées ATEX disponibles
- Encodeurs ATEX disponibles
- Classe de température T5 disponibles
- Classe de température T6 disponibles



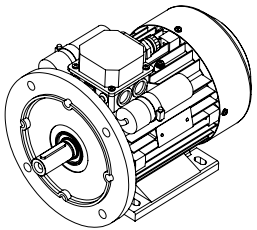
MOTEURS MONOPHASÉS (condensateur permanent)

Material	TYPE	Output 50Hz kW	Frame Size	Speed 50Hz rpm	Current 230V A	Power Factor cosφ	Efficiency		Ratio			Run Capacitor µF/V	Start Capacitor µF/V	Weight kg
							Class	at 100% Load	Starting current	Starting torque	B/down torque			
	2 pole - 3000 rpm, IP55, Insulation class F/B													
	AR 63B2	0.18	63M	2780	1.43	0.91	n/a	60.0	2.90	0.45	1.70	6/450	n/a	3.7
	AR 63C2	0.25		2800	1.9	0.95	n/a	60.0	2.90	0.40	1.70	8/450	n/a	4.1
	AR 71B2	0.37	71M	2840	2.5	0.96	n/a	67.0	3.20	0.42	1.80	10/450	n/a	6
	AR 71C2	0.55		2840	3.9	0.94	n/a	66.0	3.40	0.40	2.20	12/450	n/a	7
	AR 80B2	0.75	80M	2780	4.6	0.96	n/a	77.0	4.20	0.35	2.10	30/450	n/a	9
	AR 80C2	1.1		2800	6.5	0.97	n/a	79.0	4.00	0.34	1.90	30/450	n/a	11
	AR 90SB2	1.5	90S	2880	9.3	0.91	n/a	76.0	4.00	0.30	1.80	40/450	n/a	14
	AR 90LB2	2.2	90L	2870	13.8	0.91	n/a	76.0	4.90	0.30	1.80	50/450	n/a	16
	AR 100LB2	3	100L	2870	18.2	0.97	n/a	75.0	3.50	0.40	1.90	60/450	n/a	21
	4 pole - 1500 rpm, IP55, Insulation class F/B													
	AR 63B4	0.12	63M	1380	1.2	0.86	n/a	52.0	2.30	0.65	1.70	6/450	n/a	4.0
	AR 63C4	0.18		1350	1.48	0.93	n/a	57.0	2.10	0.60	1.40	8/450	n/a	4.3
	AR 71B4	0.25	71M	1400	1.9	0.90	n/a	63.0	3.20	0.42	1.80	10/450	n/a	6
	AR 71C4	0.37		1400	2.8	0.92	n/a	63.0	3.40	0.40	2.20	12/450	n/a	7
	AR 80134	0.55	80M	1420	3.8	0.93	n/a	67.0	5.10	0.40	1.80	30/450	n/a	9
	AR 80C4	0.75		1410	5.5	0.95	n/a	65.0	4.70	0.40	1.60	30/450	n/a	11
	AR 90SB4	1.1	90S	1420	7.6	0.89	n/a	70.0	4.30	0.35	1.60	40/450	n/a	14
	AR 90LB4	1.5	90L	1410	9.5	0.93	n/a	72.0	4.40	0.35	1.70	50/450	n/a	16
	AR 100LB4	2.2	100L	1440	14.3	0.92	n/a	73.0	4.30	0.35	1.90	60/450	n/a	21
	6 pole - 1000 rpm, IP55, Insulation class F/B													
	AR 71B6	0.18	71M	850	1.8	0.90	n/a	48.0	3.20	0.40	1.80	10/450	n/a	6
	AR 71C6	0.25		850	2.5	0.92	n/a	48.0	3.40	0.40	2.20	16/450	n/a	7
	AR 80B6	0.37	80M	850	3.5	0.93	n/a	49.0	4.60	0.40	1.80	20/450	n/a	9
	AR 80C6	0.55		850	4.8	0.95	n/a	52.0	4.20	0.40	1.60	20/450	n/a	11
	AR 90SB6	0.75	90S	850	6.3	0.94	n/a	55.0	4.00	0.40	1.60	30/450	n/a	14
	AR 90LB6	1.1	90L	850	8.9	0.94	n/a	57.0	4.30	0.40	1.70	30/450	n/a	16
	AR 100LB6	1.5	100L	850	11.6	0.94	n/a	60.0	4.20	0.40	1.90	50/450	n/a	21

Moteurs aluminium

AR = 1 condensateur = démarage à vide

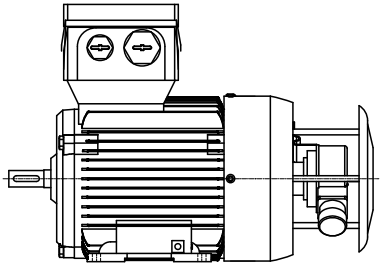
Material	TYPE	Output 50Hz kW	Frame Size	Speed 50Hz rpm	Current 230V A	Power Factor cosφ	Efficiency Class	Efficiency at 100% Load	Ratio Starting current	Ratio Starting torque	Ratio B/down torque	Run Capacitor µF/V	Start Capacitor µF/V	Weight kg
	2 pole - 3000 rpm, IP55, Insulation class F/B													
	7JE 71M02K	0.37	71M	2840	2.5	0.96	n/a	67.0	3.90	1.70	1.66	10/450	40/280	5
	ASR 80A2	0.55	80M	2870	3.5	0.96	n/a	74.0	4.30	2.30	2.00	20/450	50/280	8
	ASR 80B2	0.75	80M	2780	4.6	0.96	n/a	77.0	4.80	2.50	2.10	20/450	100/280	9
	ASR 80C2	1.1		2800	6.5	0.97	n/a	79.0	4.50	2.30	1.90	30/450	100/280	11
	ASR 90SB2	1.5	90S	2880	9.3	0.91	n/a	76.0	5.30	1.90	2.10	35/450	140/280	14
	ASR 90LB2	2.2	90L	2870	13.8	0.91	n/a	76.0	5.00	1.70	2.00	45/450	140/280	16
	ASR 100LB2	3	100L	2870	18.2	0.97	n/a	75.0	4.40	1.10	1.90	60/450	140/280	21
	4 pole - 1500 rpm, IP55, Insulation class F/B													
	ASR 71C4	0.37		1400	2.8	0.92	n/a	63.0	3.50	2.00	2.20	10/450	50/280	8.5
	ASR 80A4	0.37	80M	1450	2.9	0.98	n/a	65.0	4.80	2.50	1.70	12/450	50/280	9
	ASR 80B4	0.55		1420	4	0.93	n/a	67.0	5.10	2.60	1.80	16/450	80/280	9
	ASR 80C4	0.75		1410	5.5	0.95	n/a	65.0	4.70	2.30	1.60	20/450	80/280	11
	ASR 90SA4	0.75	90S	1410	5.6	0.90	n/a	68.0	4.70	2.30	1.60	20/450	100/280	12
	ASR 90SB4	1.1		1420	7.6	0.89	n/a	70.0	4.30	2.10	1.60	25/450	140/280	14
	ASR 90LB4	1.5	90L	1410	9.5	0.93	n/a	72.0	4.40	1.70	1.70	30/450	140/280	16
	ASR 100LB4	2.2	100L	1440	14.3	0.92	n/a	73.0	4.30	1.40	1.90	45/450	160/280	21
	6 pole - 1000 rpm, IP55, Insulation class F/B													
	ASR 71B6	0.18	71M	890	1.7	0.90	n/a	50.0	3.20	1.80	1.80	10/450	50/280	6
	ASR 71C6	0.25		890	2.3	0.92	n/a	51.0	3.40	1.80	2.20	16/450	125/280	7
	ASR 80B6	0.37	80M	890	3.3	0.93	n/a	53.0	4.60	1.80	1.80	20/450	140/280	9
	ASR 80C6	0.55		890	4.7	0.95	n/a	54.0	4.20	1.80	1.60	25/450	140/280	11
	ASR 90SB6	0.75	90S	890	5.8	0.94	n/a	60.0	4.00	1.90	1.60	30/450	156/280	14
	ASR 90LB6	1.1	90L	890	8.2	0.94	n/a	62.0	4.30	1.80	1.70	30/450	156/280	16
	ASR 100LB6	1.5	100L	890	10.6	0.95	n/a	65.0	4.20	1.90	1.90	50/450	156/280	21



ASR = 2 condensateurs = Démarage en charge

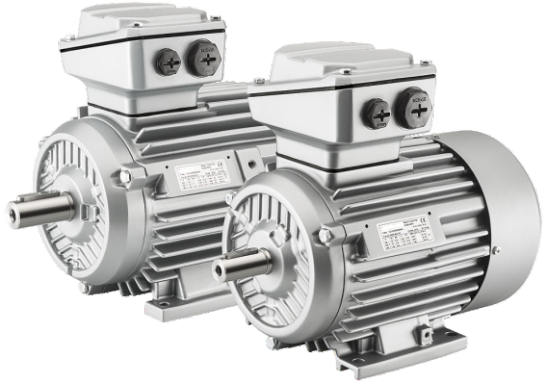
Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9501-0CA22-2_A4	0.37	0.43	71M	2770	3370	1.00	0.95	0.92	0.93	0.81	IE2	69.5	70.5	68.5	1.3	4.1	2.5	2.5	11.5
	1TZ9501-0CA32-2_A4	0.55	0.63	71M	2780	3380	1.41	1.34	1.29	1.34	0.8	IE2	74.1	75.0	73.1	1.9	4.6	2.6	2.6	13.0
	1TZ9501-0DA22-2_A4	0.75	0.86	80M	2805	3410	1.75	1.67	1.61	1.70	0.84	IE2	77.4	77.9	74.4	2.6	4.9	1.9	2.3	16.0
	1TZ9501-0DA32-2_A4	1.1	1.3	80M	2835	3430	2.53	2.41	2.32	2.30	0.83	IE2	79.6	79.6	78.6	3.7	6	2.7	3.1	18.0
	1TZ9501-0EA02-2_A4	1.5	1.8	90S	2885	3480	3.34	3.17	3.06	3.08	0.84	IE2	81.3	81.3	80.3	5.0	6.9	2.7	3.6	23.0
	1TZ9501-0EA42-2_A4	2.2	2.6	90L	2890	3485	4.73	4.50	4.33	4.36	0.85	IE2	83.2	83.2	82.2	7.3	7.1	2.5	3.7	25.5
1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9501-0CB22-2_A4	0.25	0.29	71M	1395	1695	0.80	0.76	0.74	0.75	0.69	IE2	68.5	68.2	63.8	1.7	3.7	2.4	2.5	12.0
	1TZ9501-0CB32-2_A4	0.37	0.43	71M	1380	1680	1.08	1.02	0.98	1.04	0.72	IE2	72.7	73.2	70.2	2.6	4.8	2.3	2.4	13.0
	1TZ9501-0DB22-2_A4	0.55	0.63	80M	1440	1735	1.45	1.38	1.33	1.30	0.74	IE2	78.1	78.6	75.6	3.6	5.3	2.2	3.1	17.0
	1TZ9501-0DB32-2_A4	0.75	0.86	80M	1440	1740	1.89	1.79	1.73	1.72	0.76	IE2	79.6	79.6	78.6	5.0	5.6	2.2	3.1	18.5
	1TZ9501-0EB02-2_A4	1.1	1.3	90S	1425	1725	2.64	2.50	2.41	2.44	0.78	IE2	81.4	81.4	80.4	7.4	6	2.3	3	23.0
	1TZ9501-0EB42-2_A4	1.5	1.8	90L	1435	1730	3.49	3.31	3.19	3.31	0.79	IE2	82.8	82.8	81.8	10.0	6.4	2.6	3.4	25.0
1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9501-0CC22-2_A4	0.18	0.21	71M	875	1075	0.71	0.68	0.65	0.72	0.68	IE2	56.6	57.0	53.5	2.0	2.5	2.2	2.3	11.5
	1TZ9501-0CC32-2_A4	0.25	0.29	71M	870	1070	0.88	0.84	0.81	0.87	0.7	IE2	61.6	62.7	60.0	2.7	2.6	2.3	2.3	12.5
	1TZ9501-0DC22-2_A4	0.37	0.43	80M	925	1125	1.14	1.09	1.05	1.04	0.69	IE2	71.4	71.5	66.5	3.9	4	2.1	2.4	16.5
	1TZ9501-0DC32-2_A4	0.55	0.63	80M	935	1135	1.71	1.63	1.57	1.56	0.66	IE2	74.0	74.0	70.5	5.6	4.4	2.5	2.9	18.5
	1TZ9501-0EC02-2_A4	0.75	0.86	90S	925	1135	2.15	2.04	1.97	1.88	0.7	IE2	75.9	76.0	73.0	7.7	4.1	2	2.5	23.0
	1TZ9501-0EC42-2_A4	1.1	1.3	90L	935	1135	3.06	2.91	2.80	3.04	0.7	IE2	78.1	78.5	75.0	11.0	4.4	2.2	2.6	26.5
750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B																				
	1TZ9501-0CD22-2_A4	0.09	0.11	71M	630	790	0.51	0.48	0.47	0.53	0.67	IE2	40.1	40.6	35.8	1.4	1.6	1.7	1.7	11.5
	1TZ9501-0CD32-2_A4	0.12	0.14	71M	640	795	0.69	0.66	0.63	0.69	0.66	IE2	40.1	39.6	34.7	1.8	1.8	1.8	1.8	12.5
	1TZ9501-0DD22-2_A4	0.18	0.21	80M	690	840	0.99	0.94	0.91	0.97	0.6	IE2	45.9	43.6	37.8	2.5	2.2	1.7	2.1	16.5
	1TZ9501-0DD32-2_A4	0.25	0.29	80M	705	855	1.37	1.30	1.25	1.27	0.55	IE2	50.6	48.1	41.9	3.4	2.5	2	2.5	18.5
	1TZ9501-0ED02-2_A4	0.37	0.43	90S	675	830	1.41	1.34	1.29	1.33	0.71	IE2	56.1	55.6	49.6	5.2	2.6	1.4	1.7	20.0
	1TZ9501-0ED42-2_A4	0.55	0.63	90L	665	820	1.83	1.74	1.68	1.77	0.74	IE2	61.7	63.4	59.8	7.9	2.7	1.5	1.7	21.5

Depuis 01/01/2017: A partir de 0,75kW uniquement possible en IE2, piloté par variateur de fréquence.

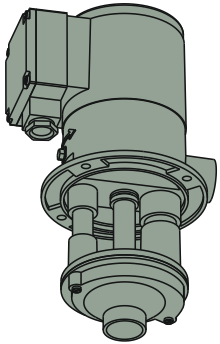


Material	TYPE	Output 50Hz kW	Output 60Hz kW	Frame Size	Speed 50Hz rpm	Speed 60Hz rpm	Rated current 50Hz 380V A	400V A	415V A	60Hz 460V A	Power Factor cosφ	Efficiency at 50Hz Class	100% Load %	75% Load %	50% Load %	Rated torque Nm	Ratio Starting current	Starting torque	B/down torque	Weight kg
	3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9503-0CA22-2_A4	0.37	0.43	71M	2850	3445	1.00	0.95	0.92	0.97	0.76	IE3	73.8	73.2	69.6	1.2	5.8	3.5	3.5	13.0
	1TZ9503-0CA32-2_A4	0.55	0.63	71M	2850	3450	1.41	1.34	1.30	1.36	0.76	IE3	77.8	77.6	74.7	1.8	6.1	3.7	3.7	14.5
	1TZ9503-0DA22-2_A4	0.75	0.86	80M	2850	3450	1.64	1.56	1.51	1.63	0.86	IE3	80.7	82.0	81.5	2.5	6.2	2.6	3	18.0
	1TZ9503-0DA32-2_A4	1.1	1.3	80M	2885	3480	2.38	2.26	2.18	2.24	0.85	IE3	82.7	82.7	81.7	3.6	7.4	2.8	3.8	21.0
	1TZ9503-0EA02-2_A4	1.5	1.8	90S	2910	3510	3.15	2.99	2.89	2.96	0.86	IE3	84.2	84.5	83.5	4.9	8.1	2.7	4.2	25.5
	1TZ9503-0EA42-2_A4	2.2	2.6	90L	2910	3510	4.43	4.21	4.05	4.21	0.88	IE3	85.9	86.8	86.1	7.2	8.3	2.6	4	32.0
	1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9503-0CB22-2_A4	0.25	0.29	71M	1395	1695	0.72	0.68	0.66	0.69	0.72	IE3	73.5	73.6	70.3	1.7	4.2	2.5	2.6	13.0
	1TZ9503-0CB32-2_A4	0.37	0.43	71M	1410	1710	1.04	0.99	0.95	0.99	0.7	IE3	77.3	76.9	73.6	2.5	4.8	3.1	3.1	16.0
	1TZ9503-0DB22-2_A4	0.55	0.63	80M	1440	1740	1.32	1.25	1.21	1.23	0.78	IE3	81.3	82.0	80.2	3.6	5.9	2.1	3.1	18.5
	1TZ9503-0DB32-2_A4	0.8	0.9	80M	1450	1750	1.84	1.75	1.69	1.75	0.75	IE3	82.5	82.5	81.5	4.9	7.1	2.7	3.9	22.5
	1TZ9503-0EB02-2_A4	1.1	1.3	90S	1440	1740	2.55	2.42	2.34	2.40	0.78	IE3	84.1	84.1	83.1	7.3	6.9	2.9	3.6	25.0
	1TZ9503-0EB42-2_A4	1.5	1.8	90L	1445	1740	3.34	3.18	3.06	3.18	0.8	IE3	85.3	85.9	84.9	9.9	7.2	2.6	2.7	31.0
	1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B																			
	1TZ9503-0CC22-2_A4	0.18	0.21	71M	885	1085	0.62	0.59	0.57	0.57	0.69	IE3	63.9	64.6	60.8	1.9	2.8	2.3	2.3	12.5
	1TZ9503-0CC32-2_A4	0.25	0.29	71M	885	1085	0.80	0.76	0.74	0.74	0.69	IE3	68.6	69.5	67.1	2.7	3.2	2.6	2.6	15.5
	1TZ9503-0DC22-2_A4	0.37	0.43	80M	940	1140	1.14	1.08	1.04	1.04	0.66	IE3	74.8	74.3	70.5	3.8	4.2	2.3	2.7	18.5
	1TZ9503-0DC32-2_A4	0.6	0.6	80M	935	1135	1.62	1.54	1.48	1.45	0.67	IE3	77.2	77.2	75.5	5.6	4.5	2.5	2.8	22.5
	1TZ9503-0EC02-2_A4	0.8	0.9	90S	945	1140	2.07	1.96	1.89	1.87	0.7	IE3	78.9	80.0	78.5	7.6	4.6	2.2	2.6	26.5
	1TZ9503-0EC42-2_A4	1.1	1.3	90L	940	1140	2.99	2.84	2.74	3.04	0.69	IE3	81.0	81.0	80.0	11.0	4.6	2.3	2.7	32.0

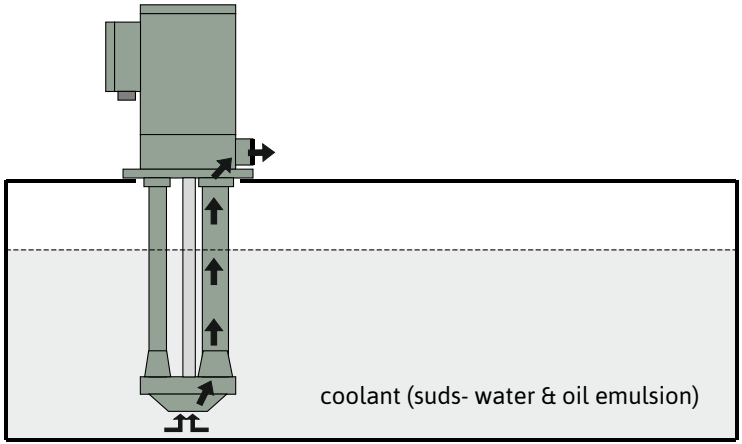
Ces moteurs sont aussi disponibles en exécution ATEX :
- Zone2
- Zone21
- Zone22
- Zone2+22



Type	Hauteur d'élévation m	L/min	kW	Profondeur d'immersion mm
4COA 2-10	4	25	0.09	100
4COA 2-12	4	25	0.09	120
4COA 2-14	4	25	0.09	140
4COA 2-17	4	25	0.09	170
4COA 2-22	4	25	0.09	220
4COA 2-27	4	25	0.09	270
4COA 4-10	4	40	0.12	100
4COA 4-12	4	40	0.12	120
4COA 4-14	4	40	0.12	140
4COA 4-17	4	40	0.12	170
4COA 4-22	4	40	0.12	220
4COA 4-27	4	40	0.12	270

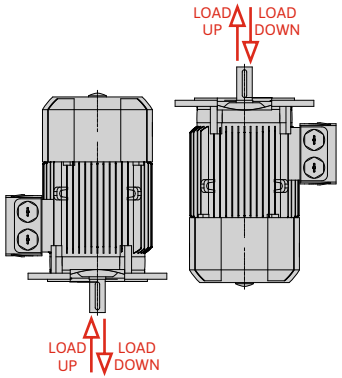


4COA



FORCES ADMISSIBLES SUR L'ARBRE (AXIALE & RADIALE) & COUPLE DE SERRAGE DES PATTES

Shaft vertical - Load in [N] for standard Ball Bearings																
Frame	3000rpm				1500rpm				1000rpm				750rpm			
	Shaft down Load		Shaft up Load		Shaft down Load		Shaft up Load		Shaft down Load		Shaft up Load		Shaft down Load		Shaft up Load	
	down	up	down	up	down	up	down	up	down	up	down	up	down	up	down	up
80	110	425	360	160	100	540	480	165	100	650	590	165	100	760	700	165
90	110	440	360	180	100	680	580	190	100	920	820	190	100	1150	1050	190
100	140	700	550	280	130	990	820	285	130	1280	1110	285	130	1560	1390	285
112	140	710	550	300	130	1000	820	310	130	1290	1110	310	130	1570	1390	310
132	200	1200	950	470	180	1680	1200	470	180	1900	1600	470	190	2200	1900	440
160	1500	1400	950	1900	1900	1800	1300	2200	2200	2200	1600	2700	2700	2700	1950	2900
180	2490	2060	1330	3220	3160	2950	2010	4100	3740	3570	2580	4730	4090	4140	2940	5290
200	2810	3060	2000	3870	3820	4210	3010	5020	4570	5010	3760	5820	5010	5800	4200	6610
225	3100	3400	2050	4450	4100	4850	3000	5850	4650	5850	3600	6900	5500	6600	4400	7650
250	3850	4100	2250	5600	4800	5750	3200	7400	5750	6750	4200	8350	6900	7700	5300	9200
280	3180	4280	1580	5850	4770	6930	3150	8500	6230	7990	4600	9570	7370	9030	5700	10500
315	2240	4710	100	6850	3720	7580	1650	9650	4550	9100	2500	11100	5900	10150	3900	11800



Les tailles des roulements peuvent être trouvées sur nos data-sheets ou téléchargées de notre site.

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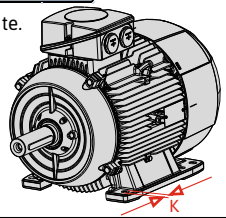

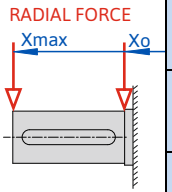

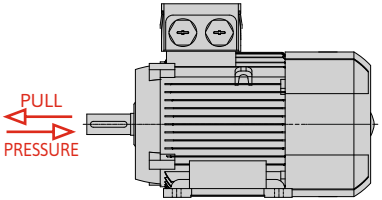

Shaft horizontal - Load in [N] for standard Ball Bearings								
Frame	3000rpm		1500rpm		1000rpm		750rpm	
	Pressure	Pull	Pressure	Pull	Pressure	Pull	Pressure	Pull
100	1430	870	1780	1220	2090	1530	2370	1810
112	1410	850	1790	1230	2090	1530	2370	1810
132	2280	960	2820	1500	3250	1930	3680	2360
160	2320	1600	2980	2260	3480	2760	4010	3290
180	2850	1700	3630	2480	4230	3080	4230	3080
200	3340	2530	4430	3620	5150	4340	5150	4340
225	3800	2750	4900	3850	5700	4650	6500	5450
250	4750	3150	6050	4450	7100	5500	8000	6400
280	4450	2850	6600	5000	7850	6300	8800	7200
315	4700	2600	7050	5000	8250	6200	9100	7100

Frame Size	Hole in Foot: K [mm]	Bolt Size	Tightening Torque	
			Bolt Grade < 8.8	Bolt Grade ≥ 8.8
63	7	M6	4.5Nm	8Nm
71	7	M6	4.5Nm	8Nm
80	10	M8	10Nm	20Nm
90	10	M8	10Nm	20Nm
100	12	M10	20Nm	40Nm
112	12	M10	20Nm	40Nm
132	12	M10	20Nm	40Nm
160	14.5	M12	34Nm	70Nm
180	14.5	M12	34Nm	70Nm
200	18.5	M16	83Nm	170Nm
225	18.5	M16	83Nm	170Nm
250	24	M20	160Nm	340Nm
280	24	M20	160Nm	340Nm
315	28	M24	280Nm	600Nm

Frame Size	Poles	Radial Force [N]	
		Xo	Xmax
100	2	1585	1270
	4	1960	1575
	6	2270	1815
	8	2520	2015
112	2	1545	1240
	4	1960	1555
	6	2270	1800
	8	2510	1990
132	2	2285	1795
	4	2860	2250
	6	3320	2580
	8	3700	2870
160	2	2800	2170
	4	3450	2750
	6	4000	3160
	8	4510	3500
180	2	3250	2610
	4	4110	3270
	6	4720	3740
	8	4800	3800
200	2	4320	3550
	4	5480	4500
	6	6220	5110
	8	6300	5200
225	2	5000	4150
	4	6250	4900
	6	7200	5750
	8	7800	6200
250	2	6000	4800
	4	7600	6200
	6	8750	7350
	8	9500	8000
280	2	5200	4200
	4	8500	7000
	6	9800	8150
	8	10800	9000
315S/M	2	5300	4500
	4	9150	7400
	6	10750	8750
	8	11600	9600
315L	2	4900	4300
	4	8900	7700
	6	10100	9150
	8	11100	10200

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