IP Koruma Sınıfı

IEC 60034-5 standardına göre, su ve / veya yabancı maddelerin döner elektrik makinalarının gövdesini geçerek tehlike oluşturacak motor kısımlarına ulaşmasını engelleme derecesini belirleyen IP koruma sınıfı motorların etiketlerinde belirtilmektedir.
Diğer koruma sınıfları için firmamız ile iletişime geçiniz.

Birinci karakteristik sayı: Katı yabancı maddelerin girişine karşı koruma		İkinci karakteristik sayı: Suya karşı koruma	
0	Korunmamış makine	0	Korunmamış makine
1	50 mm'den büyük katı cisimlere karşı korumalı	1	Damlayan suya karşı korumalı
2	12,5 mm'den büyük katı cisimlere karşı korumalı	2	15°'ye kadar dikey olarak damlayan suya karşı korumalı
3	2,5 mm'den büyük katı cisimlere karşı korumalı	3	60°'ye kadar dikey olarak su püskürtmesine korumalı
4	1 mm'den büyük katı cisimlere karşı korumalı	4	Püsküren suya karşı korumalı
5	Toza karşı korulamalı	5	Her yönden püskürtülen su jetine karşı korumalı
6	Toz geçirmez	6	Her yönden püskürtülen şiddetli su jetine karşı korumalı
		7	Geçici suya daldırmanın etkilerine karşı korulamalı
		8	Su altında bırakılmanın etkilerine karşı korumalı

İzolasyon Sınıfı

Standart üretim motorlarımız, B sınıfı sıcaklık artışı limitleri içerisinde tasarlanmıştır. F tipi izolasyona sahiptir. F tipi izolasyon 40°C ortam sıcaklığında, 10°C güvenlik payı dikkate alınarak maksimum 105°C sıcaklık artışına müsaade ettiği halde daha iyi performans ve daha uzun ömür için sıcaklık artışı, motorlarımız tasarlanırken 80°C ile sınırlandırılır.

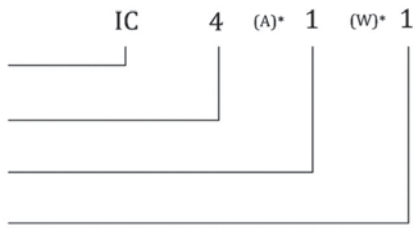
Sıcaklık artışı (ΔT*) ve sargının en sıcak noktalarındaki maksimum sıcaklıklar(Tmax) IEC 60034-1 satandartları sıcaklık sınıfına göre

	ΔT*	Tmax
B sınıfı	80K	125°C
F sınıfı	105K	155°C
H sınıfı	125K	180°C

Ortam sıcaklığı	45°C	50°C	55°C	60°C
40°C'nin üzerindeki ortam sıcaklıklarında servis faktörü (B sınıfı sıcaklık artışı)	95%	90%	85%	90%

Soğutma Metodu

IEC 60034-6 standartına göre tanımlanan ve motorlarımızda uygulanan soğutma metodlarının kod açıklaması aşağıdaki gibidir.



Kod harfleri

Devre düzenlemesi

Primer soğutucu hareket metodu

Sekonder soğutucu hareket metodu

4: Gövde yüzeyinden soğutma

1: Motor içi hava sirkülasyonu

1: Mil üzerine monte edilen pervane ile gövde yüzeyinden

Mekanik Üretim

Gövde

Alüminyumdan imal edilen gövdeler sıcak geçirme yöntemi ile statora sabitlenir, soğutma yüzeyi ve dayanıklı yapı sağlar (Müşteri isteğine göre standarttan farklı ölçülerde imal edilebilmektedir).

Kapaklar

Alüminyum alaşımından imal edilen kapaklar gövdeye sıkı geçecek şekilde işlenir ve uygun montaj elemanları ile gövdeye sabitlenir. Kapaklar, rulman yataklarını içerdiğinden milin yataklanmasında önemli rol oynar (Müşteri isteğine göre özel tasarımlar yapılabilmektedir).

Klemens Kutusu

90 tip ve üzeri motorlar için alüminyumdan, daha küçük motorlarda ise plastik malzemeden imal edilen klemens kutuları motor elektrik bağlantısını yabancı maddelere karşı koruyarak büyük ölçüde güvenliği artırır. Tek fazlı motorlar ise farklı olarak klemens kutuları içerisinde daimi devre kondansatörü barındırır

Pervane

Motor miline sıkı geçirilmiş polipropilen plastik malzemeden imal edilmiş pervane, motor dönüş yönüne bağımlı olmaksızın soğutma sağlar. Üretimi yaptığımız tüm motorlarımızda pervaneler polipropilen plastikten yapılmıştır (Müşteri isteğine göre pervaneler alüminyum malzemenden üretilebilmektedir).

Boya

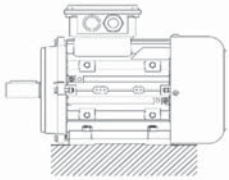
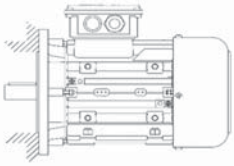
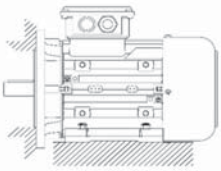
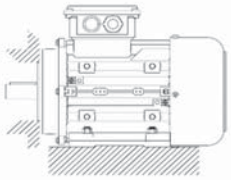
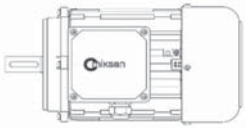
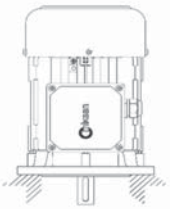
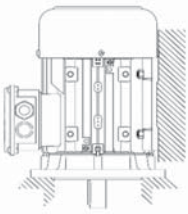
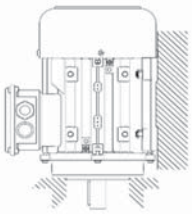
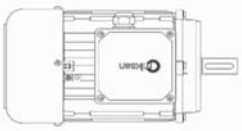
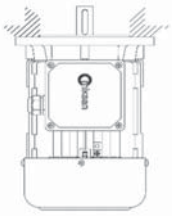
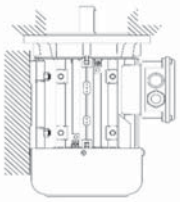
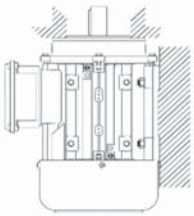
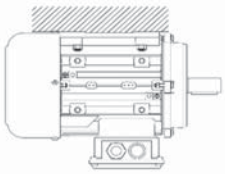
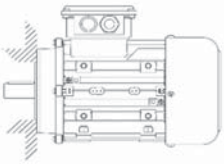
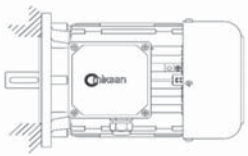
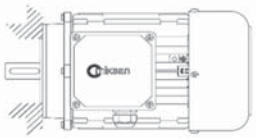
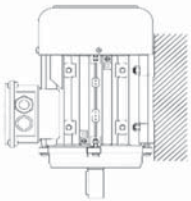
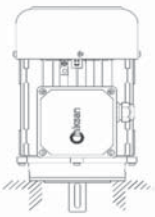
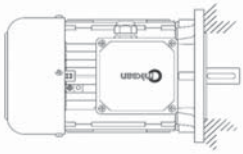
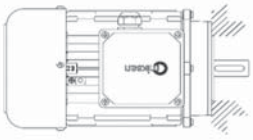
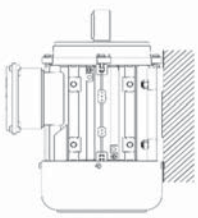
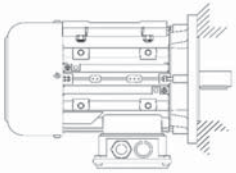
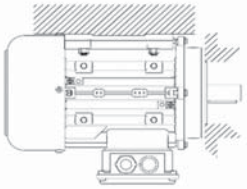
Tüm standart motorlarımız RAL 7016 boya ile boyanır. Özel istek üzerine RAL 9005 boya kullanılabilir.(Farklı renkler için irtibata geçiniz).

Rulmanlar

Standart tasarım rulmanlar sürekli yağlamaya sahiptir.

Gövde Tipi	Kutup Sayısı	Ön Rulman	Arka Rulman	Ölçüler
56	2 - 4	6201 - 2Z C3	6201 - 2Z C3	12x32x10
63	2 - 4	6202 - 2Z C3	6202 - 2Z C3	15x35x11
71	2 - 4 - 6	6202 - 2Z C3	6202 - 2Z C3	15x35x11
80	2 - 4 - 6 - 8	6204 - 2Z C3	6204 - 2Z C3	20x47x14
90S	2 - 4 - 6	6205 - 2Z C3	6205 - 2Z C3	25x52x15
90L	2 - 4 - 6	6205 - 2Z C3	6205 - 2Z C3	25x52x15
100	2 - 4 - 6	6206 - 2Z C3	6206 - 2Z C3	30x62x16
112	2 - 4 - 6	6206 - 2Z C3	6206 - 2Z C3	30x62x16
132S	2 - 4	6208 - 2Z C3	6208 - 2Z C3	30x62x16
132M	2 - 4	6208 - 2Z C3	6208 - 2Z C3	40x80x18

IEC 60034-7'e göre montaj düzenleri

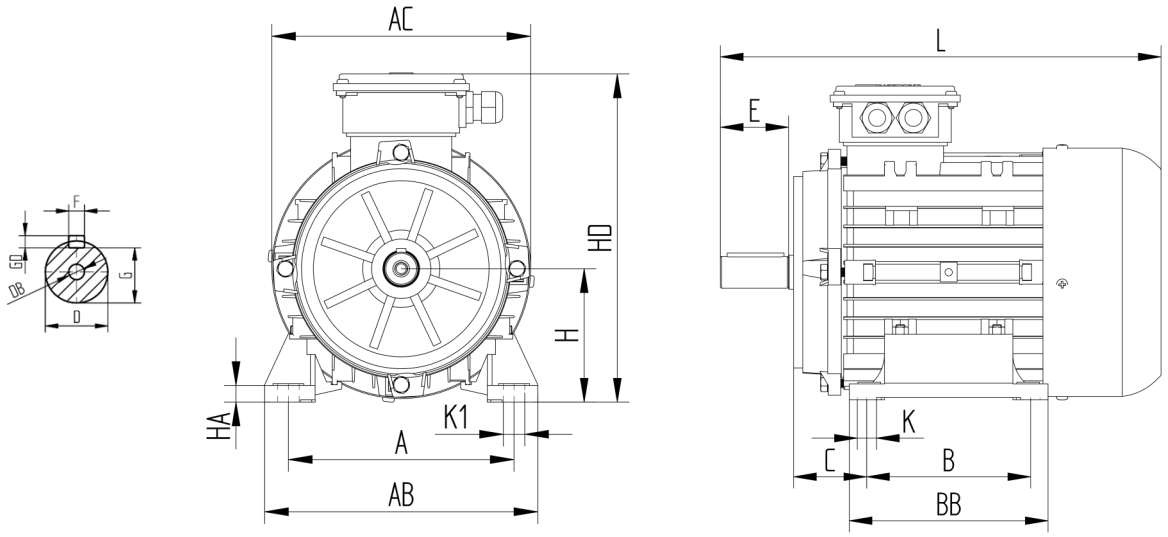
Ayak bağlantılı	Flanş bağlantılı	Flanş ve ayak bağlantılı	
B3 - IM 1001	IM B5 - IM 3001	IM B35 - IM 2001	IM B34 - IM 2101
			
IM B6 - IM 1051	IM V1 -IM 3011	IM V15 - IM 2011	IM V17 - IM 2111
			
IM B7 - IM 1061	IM V3 - IM 3031	IM V35 - IM 2031	IM V37 - IM 2131
			
IM B8 - IM 1071	IM B14 - IM 3601	IM 2051	IM 2151
			
IM V5 - IM 1011	IM V18 - IM 3611	IM 2061	IM 2161
			
IM V6 - IM 1031	IM V19 - IM 3631	IM 2071	IM 2171
			

Gerilim : 400V - 50 Hz
İzl Sınıfı : F
İşl. Türü : S1
IP : 54

IE3

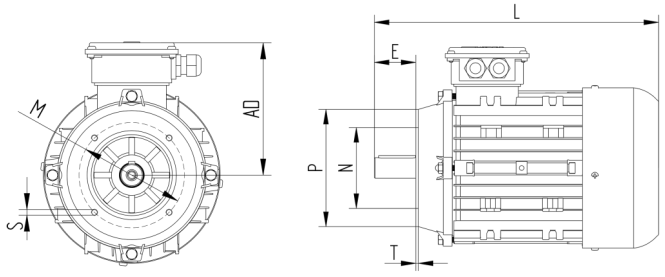
Tip	Pn		Tn		IE3 η			cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	
	kW	HP	min^{-1}	Nm	100%	75%	50%		400V				kgm^2	kg
3000 min^{-1}														
56 2A*	**0.09**	0.12	2830	0.32	**64.6**	64.3	55.1	0.70	0.30	3.7	3.0	3.1	0.00014	2.3
56 2B*	**0.12**	0.16	2860	0.40	**63.4**	63.2	56.0	0.72	0.37	5.0	3.7	3.1	0.00015	2.8
56 2C*	**0.18**	0.25	2840	0.60	**67.4**	67.1	61.2	0.76	0.50	5.0	3.7	3.1	0.00016	3.2
63 2A*	**0.18**	0.25	2800	0.61	**65.1**	64.8	59.8	0.65	0.65	4.6	2.8	2.8	0.00014	3.4
63 2B*	**0.25**	0.34	2800	0.85	**68.7**	68.1	60.7	0.75	0.73	4.2	2.2	3.5	0.00017	3.8
63 2C*	**0.37**	0.50	2790	1.26	**68.3**	68.1	61.2	0.70	1.15	4.0	2.0	3.0	0.00018	4.5
63 2D*	**0.55**	0.75	2720	1.95	**71.3**	71.0	68.2	0.80	1.40	3.9	2.3	3.1	0.00042	5.2
71 2A*	**0.37**	0.50	2800	1.58	**73.2**	73.0	69.2	0.72	1.10	4.0	2.5	2.6	0.00033	4.9
71 2B*	**0.55**	0.75	2765	1.94	**76.8**	76.1	74.1	0.81	1.30	4.5	2.4	2.5	0.00043	6.0
71 2C IE3	**0.75**	1.00	2775	2.55	**77.4**	77.5	74.2	0.80	1.78	4.7	2.6	2.8	0.00054	7.6
80 2B IE3	**0.75**	1.00	2890	2.50	**81.6**	78.6	73.7	0.77	1.72	6.1	2.4	3.2	0.00067	8.7
80 2C IE3	**1.10**	1.50	2885	3.70	**82.8**	81.4	78.0	0.76	2.34	6.0	2.6	3.6	0.00081	9.8
90S 2B IE3	**1.50**	2.00	2907	4.93	**84.2**	83.0	79.3	0.81	3.23	6.4	3.0	3.7	0.0013	14.0
90L 2C IE3	**2.20**	3.00	2905	7.24	**85.9**	85.2	82.4	0.83	4.48	6.5	3.1	3.6	0.0015	16.5
100 2B IE3	**3.00**	4.00	2905	9.85	**87.1**	86.4	83.2	0.86	5.92	7.6	3.5	4.1	0.0030	21.8
100 2C IE3	**4.00**	5.50	2895	13.2	**88.1**	87.8	87.0	0.82	7.25	7.7	3.0	3.8	0.0046	23.4
112 2B IE3	**4.00**	5.50	2905	13.2	**88.3**	88.8	87.4	0.91	7.16	7.1	2.9	3.6	0.027	26.9
112 2C IE3	**5.50**	7.50	2900	18.1	**91.0**	89.7	88.8	0.87	9.85	7.4	2.8	3.5	0.029	31.8
132S 2B IE3	**5.50**	7.50	2910	18.1	**91.0**	89.8	89.0	0.92	9.73	7.5	2.7	3.4	0.015	41.8
132S 2C IE3	**7.50**	10.0	2935	24.5	**90.1**	90.0	89.6	0.90	13.4	7.3	2.7	3.4	0.018	47.1
132M 2C IE3	**11.0**	15.0	2930	35.9	**91.2**	91.1	90.2	0.90	19.6	7.9	2.5	3.9	0.022	57.8
1500 min^{-1}														
56 4A*	**0.06**	0.08	1370	0.41	**57.7**	57.4	51.1	0.60	0.26	3.0	2.4	2.6	0.00014	2.3
56 4B*	**0.09**	0.12	1385	0.62	**59.8**	59.2	54.4	0.62	0.39	3.1	2.8	2.3	0.00016	2.6
56 4C*	**0.12**	0.16	1380	0.83	**59.2**	58.9	54.2	0.68	0.48	3.2	2.8	2.4	0.00018	3.3
63 4A*	**0.12**	0.16	1400	0.82	**57.4**	57.0	53.4	0.63	0.60	3.0	2.0	2.0	0.00021	3.3
63 4B*	**0.18**	0.25	1340	1.30	**54.6**	54.1	50.4	0.67	0.73	2.8	2.0	2.0	0.00026	3.5
63 4C*	**0.25**	0.34	1340	1.80	**60.8**	60.4	56.5	0.66	1.00	3.0	2.0	2.0	0.00032	4.5
71 4A*	**0.25**	0.34	1415	1.70	**57.7**	57.4	53.7	0.68	0.95	3.3	2.3	2.5	0.00049	4.7
71 4B*	**0.37**	0.50	1410	2.50	**62.8**	62.5	56.9	0.68	1.25	3.5	2.4	2.3	0.00067	5.6
71 4C*	**0.55**	0.75	1380	3.80	**73.3**	69.8	64.8	0.70	1.57	3.4	2.0	2.1	0.00082	6.3
80 4C IE3	**0.75**	1.00	1435	5.00	**82.5**	81.6	80.8	0.71	1.90	5.5	2.6	2.8	0.0025	11.5
90S 4B IE3	**1.10**	1.50	1437	7.37	**84.1**	83.9	82.4	0.72	2.73	5.2	2.8	3.1	0.0028	15.4
90L 4C IE3	**1.50**	2.00	1430	10.1	**85.3**	84.4	82.8	0.72	3.48	6.4	3.6	3.8	0.0033	17.1
100 4B IE3	**2.20**	3.00	1440	14.6	**86.7**	86.2	83.6	0.76	4.85	6.9	3.0	3.6	0.0054	22.0
100 4C IE3	**3.00**	4.00	1440	19.9	**87.7**	87.0	85.2	0.78	7.00	8.0	3.9	4.0	0.0070	26.7
112 4C IE3	**4.00**	5.50	1450	26.4	**88.6**	88.7	87.8	0.81	8.27	6.8	2.4	3.0	0.025	32.2
132S 4B IE3	**5.50**	7.50	1460	36.0	**89.6**	89.5	88.5	0.85	10.6	6.9	2.6	3.3	0.025	49.9
132M 4C IE3	**7.50**	10.0	1470	49.0	**90.4**	90.1	89.6	0.80	15.4	7.5	3.1	3.5	0.033	56.2

* ile işaretli olan motorların IEC 60034-2-1'e göre verim tayinleri yapılmamıştır.

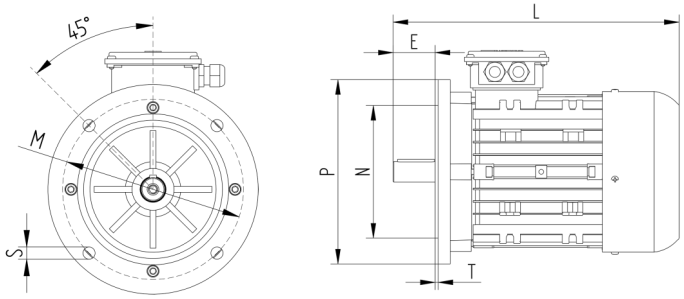


IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
56	56	143	182	108	90	71	110	81	7	6	6	36	20	9	-	10	3x3
63	63	168	210	124	100	80	120	100	10	7	7	40	23	11	-	12.5	4x4
71	71	184	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5
80	80	201	273	157	125	100	152	129	13	10	10	50	40	19	M6	21.5	6x6
90S	90	229	308	175	140	100	170	127	13	10	10	56	50	24	M8	27.0	8x8
90L	90	229	333	175	140	125	170	152	13	10	10	56	50	24	M8	27.0	8x8
100	100	251	375	194	160	140	192	165	18	12	10	63	60	28	M10	31.0	8x8
112	112	276	387	218	190	140	230	175	18	12	14	70	60	28	M10	31.0	8x8
132S	132	309	462	258	216	140	260	180	28	12.5	16	89	80	38	M12	41.0	10x8
132M	132	309	493	258	216	178	260	218	28	12.5	16	89	80	38	M12	41.0	10x8

IEC B14	P	N	M	T	S	AD
56	78	50	65	2.5	M5	87
63	90	60	75	2.5	M5	105
71	105	70	85	2.5	M6	113
80	122	80	100	3.0	M6	121
90 S/L	138	95	115	3.0	M8	139
100	160	110	130	3.5	M8	151
112	160	110	130	3.5	M8	164
132S/M	200	130	165	3.5	M10	196



IEC B5	P	N	M	T	S	AD
56	120	80	100	3.0	7	87
63	140	95	115	3.0	10	105
71	160	110	130	3.5	10	113
80	200	130	165	3.5	12	121
90 S/L	200	130	165	3.5	12	139
100	250	180	215	4.0	13	151
112	250	180	215	4.0	13	164
132S/M	300	230	265	4.0	14.5	196

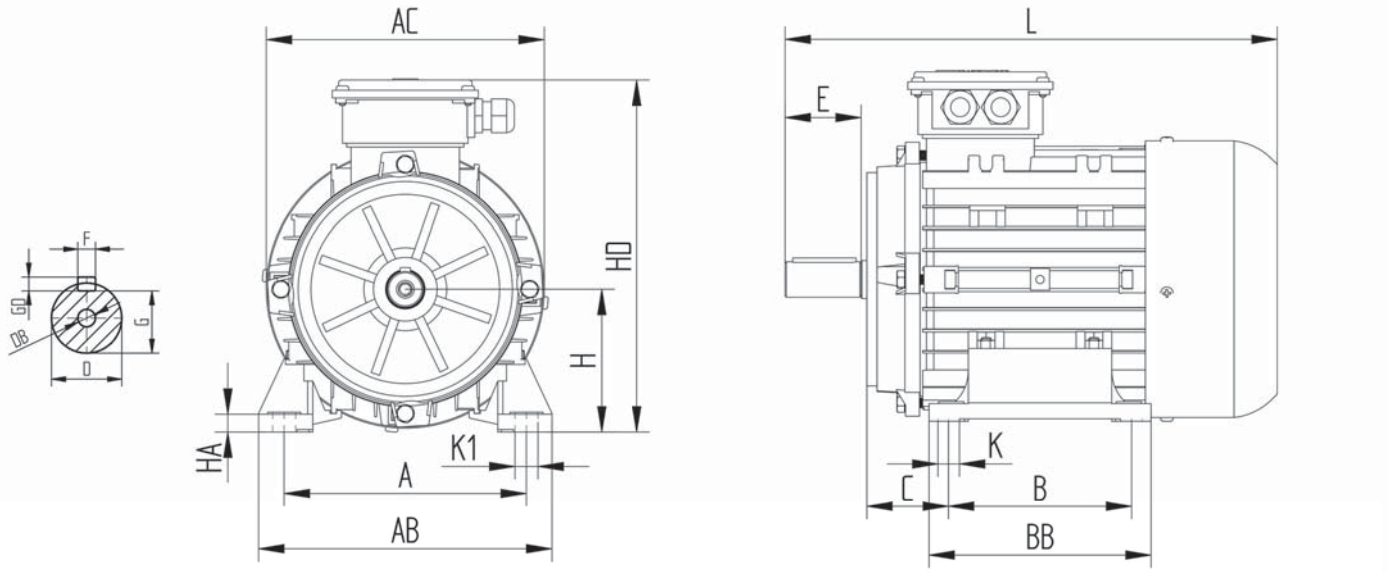


Gerilim : 400V - 50 Hz
İzl Sınıfı : F
İşl. Türü : S1
IP : 54

IE2

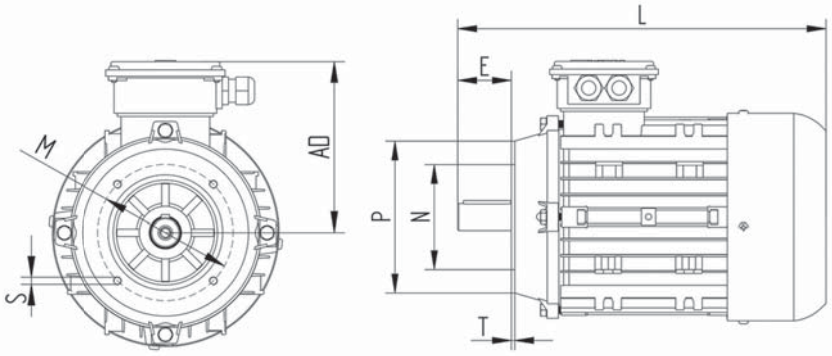
Tip	Pn			Tn	IE2 η			cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	
	kW	HP	min^{-1}	Nm	100%	75%	50%		400V				kgm^2	kg
3000 min^{-1}														
56 2A*	**0.09**	0.12	2830	0.32	**64.6**	64.3	55.1	0.70	0.30	3.7	3.0	3.1	0.00014	2.3
56 2B*	**0.12**	0.16	2860	0.40	**63.4**	63.2	56.0	0.72	0.37	5.0	3.7	3.1	0.00015	2.8
56 2C*	**0.18**	0.25	2840	0.60	**67.4**	67.1	61.2	0.76	0.50	5.0	3.7	3.1	0.00016	3.2
63 2A*	**0.18**	0.25	2800	0.61	**65.1**	64.8	59.8	0.65	0.65	4.6	2.8	2.8	0.00014	3.4
63 2B*	**0.25**	0.34	2800	0.85	**68.7**	68.1	60.7	0.75	0.73	4.2	2.2	3.5	0.00017	3.8
63 2C*	**0.37**	0.50	2790	1.26	**68.3**	68.1	61.2	0.70	1.15	4.0	2.0	3.0	0.00018	4.5
63 2D*	**0.55**	0.75	2720	1.95	**71.3**	71.0	68.2	0.80	1.40	3.9	2.3	3.1	0.00042	5.2
71 2A*	**0.37**	0.50	2800	1.58	**73.2**	73.0	69.2	0.72	1.10	4.0	2.5	2.6	0.00033	4.9
71 2B*	**0.55**	0.75	2765	1.94	**76.8**	76.1	74.1	0.81	1.30	4.5	2.4	2.5	0.00043	6.0
71 2C IE2	**0.75**	1.00	2775	2.60	**77.4**	77.5	74.2	0.80	1.78	4.7	2.6	2.8	0.00054	7.6
80 2A IE2	**0.75**	1.00	2820	2.55	**77.4**	77.6	74.8	0.81	1.72	4.8	3.2	3.0	0.00067	8.0
80 2B IE2	**1.10**	1.50	2805	3.75	**79.6**	80.0	78.0	0.84	2.34	5.0	2.5	3.2	0.00081	9.1
80 2C IE2	**1.50**	2.00	2830	5.10	**81.3**	81.0	79.3	0.81	3.31	6.2	2.8	3.1	0.00092	10.1
90S 2A IE2	**1.50**	2.00	2860	5.00	**81.3**	81.4	79.5	0.82	3.23	6.1	2.4	2.6	0.0013	12.0
90L 2B IE2	**2.20**	3.00	2865	7.35	**83.2**	83.0	81.7	0.81	4.48	6.6	2.7	2.9	0.0016	15.0
90L 2C IE2	**3.00**	4.00	2865	10.0	**84.6**	84.0	82.1	0.82	6.58	6.7	2.9	3.1	0.0019	17.3
100 2A IE2	**3.00**	4.00	2860	10.0	**84.6**	84.5	83.8	0.78	5.92	6.7	2.6	3.1	0.0026	18.8
100 2B IE2	**4.00**	5.50	2865	13.4	**85.8**	84.9	83.9	0.88	7.60	7.6	2.7	3.0	0.0068	22.3
112 2A IE2	**4.00**	5.50	2870	13.3	**85.8**	85.2	84.5	0.86	7.75	6.6	2.2	2.6	0.0046	26.3
112 2B IE2	**5.50**	7.50	2890	18.2	**87.0**	86.5	85.6	0.89	9.85	7.3	2.1	2.6	0.0050	27.5
132S 2A IE2	**5.50**	7.50	2885	18.2	**87.0**	87.0	86.4	0.89	9.73	8.6	2.2	2.7	0.010	41.0
132S 2B IE2	**7.50**	10.0	2890	24.8	**88.1**	88.0	87.7	0.91	13.4	8.4	2.3	2.6	0.012	44.1
132M 2C IE2	**11.0**	15.0	2910	36.2	**89.4**	89.3	88.6	0.90	19.6	7.2	2.0	2.2	0.021	57.8
1500 min^{-1}														
56 4A*	**0.06**	0.08	1370	0.41	**57.7**	57.4	51.1	0.60	0.26	3.0	2.4	2.6	0.00014	2.3
56 4B*	**0.09**	0.12	1385	0.62	**59.8**	59.2	54.4	0.62	0.39	3.1	2.8	2.3	0.00016	2.6
56 4C*	**0.12**	0.16	1380	0.83	**59.2**	58.9	54.2	0.68	0.48	3.2	2.8	2.4	0.00018	3.3
63 4A*	**0.12**	0.16	1400	0.82	**57.4**	57.0	53.4	0.63	0.60	3.0	2.0	2.0	0.00021	3.3
63 4B*	**0.18**	0.25	1340	1.30	**54.6**	54.1	50.4	0.67	0.73	2.8	2.0	2.0	0.00026	3.5
63 4C*	**0.25**	0.34	1340	1.80	**60.8**	60.4	56.5	0.66	1.00	3.0	2.0	2.0	0.00032	4.5
71 4A*	**0.25**	0.34	1415	1.70	**57.7**	57.4	53.7	0.68	0.95	3.3	2.3	2.5	0.00049	4.7
71 4B*	**0.37**	0.50	1410	2.50	**62.8**	62.5	56.9	0.68	1.25	3.5	2.4	2.3	0.00067	5.6
71 4C*	**0.55**	0.75	1380	3.80	**73.3**	69.8	64.8	0.70	1.57	3.4	2.0	2.1	0.00082	6.3
80 4B IE2	**0.75**	1.00	1410	5.10	**79.6**	79.4	77.7	0.74	1.90	4.0	2.1	2.1	0.008	9.6
90S 4A IE2	**1.10**	1.50	1415	7.45	**81.4**	81.3	80.2	0.73	2.70	5.5	2.8	3.1	0.008	12.6
90L 4B IE2	**1.50**	2.00	1415	10.1	**82.8**	82.8	81.3	0.72	3.55	6.0	2.6	3.0	0.009	15.2
100 4A IE2	**2.20**	3.00	1425	14.9	**84.3**	84.1	82.3	0.76	4.60	5.6	2.1	2.7	0.012	21.0
100 4C IE2	**3.00**	4.00	1415	20.3	**85.5**	85.5	83.8	0.76	6.90	5.4	2.0	2.5	0.016	23.7
112 4C IE2	**4.00**	5.50	1440	26.6	**86.6**	86.6	85.1	0.81	8.40	7.0	2.1	3.0	0.027	28.4
132S 4B IE2	**5.50**	7.50	1455	36.1	**87.7**	87.9	87.1	0.78	11.7	6.9	2.5	2.9	0.022	40.8
132M 4C IE2	**7.50**	10.0	1460	49.1	**88.7**	88.7	87.9	0.76	15.8	7.0	2.2	2.7	0.030	51.0

* ile işaretli olan motorların IEC 60034-2-1'e göre verim tayinleri yapılmamıştır.

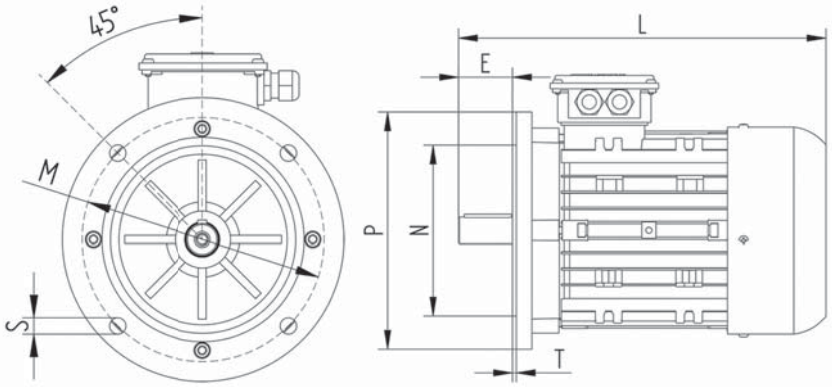


IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
56	56	143	182	108	90	71	110	81	7	6	6	36	20	9	-	10.0	3x3
63	63	168	210	124	100	80	120	100	10	7	7	40	23	11	-	12.5	4x4
71	71	184	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5
80	80	201	273	157	125	100	152	129	13	10	10	50	40	19	M6	21.5	6x6
90S	90	229	305	175	140	100	170	127	13	10	10	58	50	24	M8	27.0	8x8
90L	90	229	333	175	140	125	170	152	13	10	10	58	50	24	M8	27.0	8x8
100	100	251	375	194	160	140	192	165	18	12	10	63	60	28	M10	31.0	8x8
112	112	276	388	218	190	140	230	175	18	12	14	71	60	28	M10	31.0	8x8
132S	132	309	464	258	216	140	260	180	28	12	16	89	80	38	M12	41.0	10x8
132M	132	309	493	258	216	178	260	218	28	12	16	89	80	38	M12	41.0	10x8

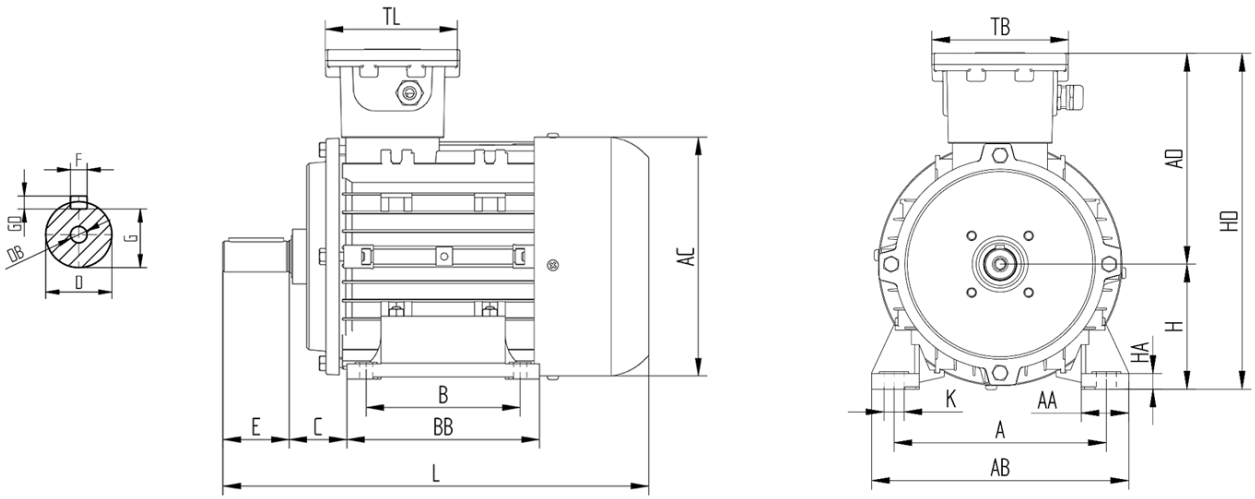
IEC B14	P	N	M	T	S	AD
56	78	50	65	2.5	M5	87
63	90	60	75	2.5	M5	105
71	105	70	85	2.5	M6	113
80	122	80	100	3.0	M6	121
90 S/L	180	95	115	3.0	M8	139
100	160	110	130	3.5	M8	151
112	160	110	130	3.5	M8	164
132	200	130	165	3.5	M10	177



IEC B5	P	N	M	T	S	AD
56	120	80	100	3.0	7	87
63	140	95	115	3.0	10	105
71	160	110	130	4.0	10	113
80	200	130	165	3.5	12	121
90 S/L	200	130	165	3.0	12	139
100	250	180	215	4.0	15	151
112	250	180	215	4.0	15	164
132	300	230	265	4.0	15	177

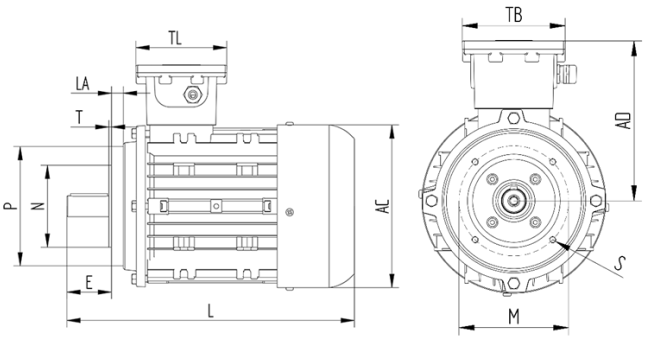


EX EX-PROOF MOTOR TEKNİK ÖLÇÜLERİ

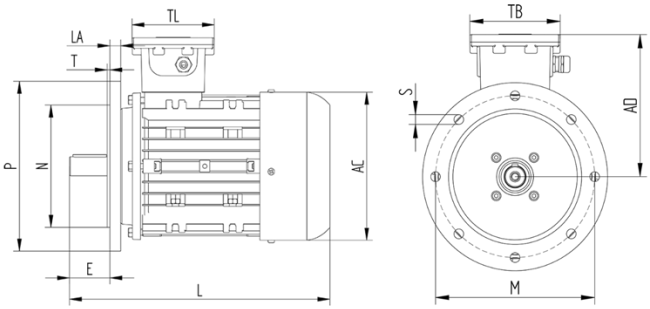


IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
56	56	188	182	108	90	71	110	81	7	6	6	36	20	9	-	10	3x3
63	63	204	210	124	100	80	120	100	10	7	7	40	23	11	M4	12.5	4x4
71	71	220	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5
80	80	236	273	157	125	100	152	129	13	10	10	50	40	19	M6	21.5	6x6
90S	90	248	308	175	140	100	170	127	13	10	10	56	50	24	M8	27.0	8x8
90L	90	248	333	175	140	125	170	152	13	10	10	56	50	24	M8	27.0	8x8
100	100	274	375	194	160	140	192	165	18	12	10	63	60	28	M10	31.0	8x8
112	112	302	387	218	190	140	230	175	18	12	14	70	60	28	M10	31.0	8x8
132S	132	358	462	258	216	140	260	180	28	12.5	16	89	80	38	M12	41.0	10x8
132M	132	358	493	258	216	178	260	218	28	12.5	16	89	80	38	M12	41.0	10x8

IEC B14	P	N	M	T	LA	S	AD	TB/TL
56	80	50	65	2.5	10	M5	132	122
63	90	60	75	2.5	10.5	M5	141	122
71	105	70	85	2.5	12.8	M6	149	122
80	122	80	100	3.0	13.8	M6	156	122
90 S/L	138	95	115	3.0	13.8	M8	164	122
100	160	110	130	3.5	16.0	M8	174	122
112	160	110	130	3.5	16.0	M8	190	122
132S/M	200	130	165	3.5	20.0	M10	226	150



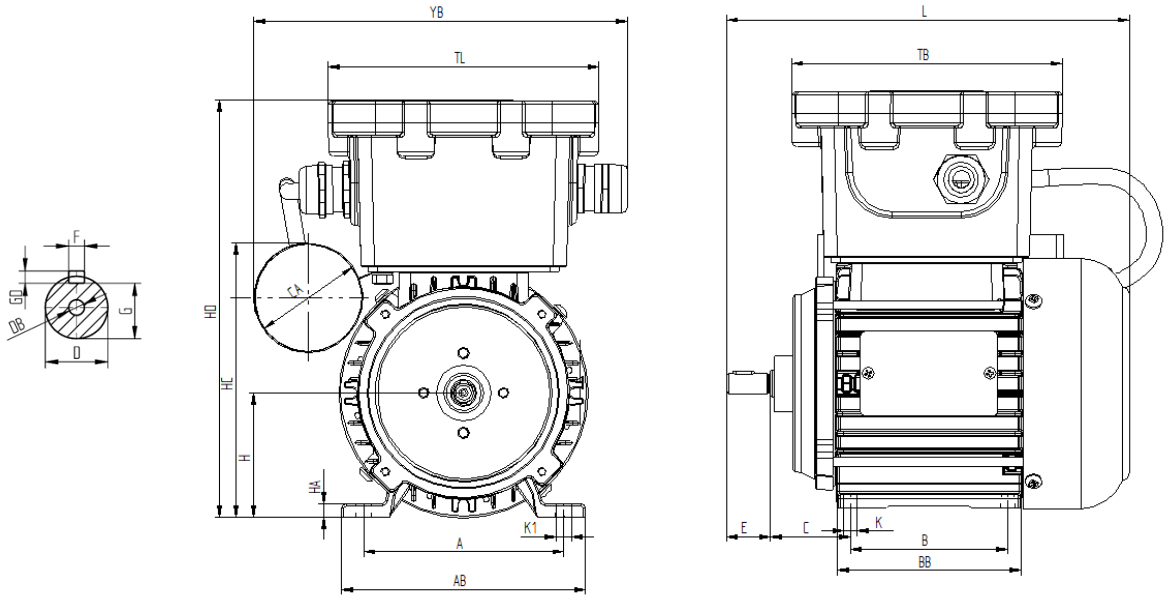
IEC B5	P	N	M	T	LA	S	AD	TB/TL
56	120	80	100	3.0	8.0	7	132	122
63	140	95	115	3.0	8.0	10	141	122
71	160	110	130	3.5	10.0	10	149	122
80	200	130	165	3.5	12.0	12	156	122
90 S/L	200	130	165	3.5	13.8	12	164	122
100	250	180	215	4.0	16.0	13	174	122
112	250	180	215	4.0	16.0	13	190	122
132S/M	300	230	265	4.0	20.0	14.5	226	150



EX SERİSİ

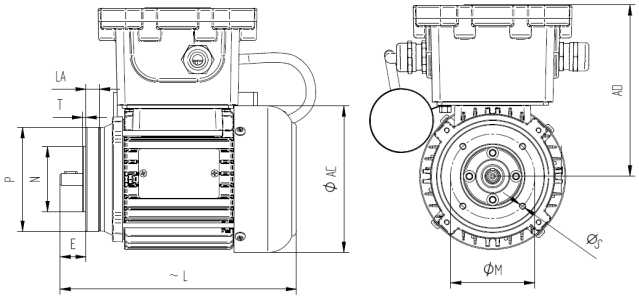
Gerilim : 400V 50Hz/460V 60Hz
İzl Sınıfı : F
IP : 55/65
İşl. Türü : S1
Serifika No : IEP 16 ATEX 0433X

Tip	$Pn_{(kW)}$		HP		min^{-1}		Tn	cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	kg
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Nm		400V				kgm^2	
3000 min^{-1}														
56 2A EX	**0.09**	**0.11**	0.12	0.15	2815	3370	0.31	0.70	0.30	3.7	3.1	2.9	0.00014	4.0
56 2B EX	**0.12**	**0.14**	0.16	0.21	2835	3395	0.41	0.75	0.35	4.9	3.6	3.0	0.00015	4.2
56 2C EX	**0.18**	**0.22**	0.25	0.33	2800	3355	0.62	0.84	0.50	4.9	3.7	2.9	0.00016	4.4
63 2A EX	**0.18**	**0.22**	0.25	0.30	2785	3345	0.63	0.69	0.65	4.2	2.3	2.7	0.0001	4.8
63 2B EX	**0.25**	**0.30**	0.34	0.41	2755	3310	0.87	0.78	0.70	4.5	2.4	2.8	0.00012	5.3
63 2C EX	**0.37**	**0.44**	0.50	0.60	2760	3315	1.30	0.70	1.20	4.3	2.3	2.6	0.00021	5.7
71 2A EX	**0.37**	**0.44**	0.50	0.60	2790	3350	1.25	0.71	1.10	4.0	2.5	2.6	0.00032	6.5
71 2B EX	**0.55**	**0.66**	0.74	0.98	2760	3310	1.90	0.80	1.45	4.5	2.4	2.5	0.00065	7.4
80 2A EX	**0.75**	**0.90**	1.00	1.20	2890	3470	2.50	0.77	1.75	6.1	2.4	3.2	0.00078	10.2
80 2B EX	**1.10**	**1.32**	1.50	1.80	2790	3350	3.80	0.83	2.60	5.0	2.5	3.2	0.00087	10.2
90S 2A EX	**1.50**	**1.80**	2.00	2.40	2907	3490	4.93	0.81	3.25	6.4	3.0	3.7	0.0013	15.2
90L 2B EX	**2.20**	**2.64**	3.00	3.60	2875	3450	7.30	0.81	4.75	6.6	2.7	2.9	0.0016	15.3
100 2A EX	**3.00**	**3.60**	4.00	4.80	2905	3485	9.85	0.86	5.95	7.6	3.5	4.1	0.0026	23.4
100 2B EX	**4.00**	**4.80**	5.50	6.60	2865	3440	13.2	0.88	7.50	7.6	2.7	3.0	0.0036	23.7
112 2A EX	**4.00**	**4.80**	5.50	6.60	2905	3485	13.2	0.91	7.16	7.1	2.9	3.6	0.0046	28.3
112 2B EX	**5.50**	**6.60**	7.50	9.00	2900	3480	18.1	0.87	9.85	7.4	2.8	3.5	0.0050	33.2
132S 2A EX	**5.50**	**6.60**	7.50	9.00	2910	3490	18.1	0.92	9.73	7.5	2.7	3.4	0.015	45.4
132S 2B EX	**7.50**	**9.50**	10.0	12.0	2935	3520	24.5	0.90	13.4	7.3	2.8	3.4	0.018	51.5
132M 2C EX	**11.0**	**13.2**	15.0	18.0	2910	3490	36.1	0.91	19.7	7.5	3.0	2.2	0.021	53.2
1500 min^{-1}														
56 4A EX	**0.09**	**0.11**	0.12	0.15	2815	3370	0.31	0.70	0.30	2.7	2.4	2.5	0.00014	4.0
56 4B EX	**0.12**	**0.14**	0.16	0.21	2835	3395	0.41	0.75	0.35	2.9	2.2	2.3	0.00015	4.2
56 4C EX	**0.18**	**0.22**	0.25	0.33	2800	3355	0.62	0.84	0.50	3.2	2.1	2.3	0.00016	4.4
63 4A EX	**0.12**	**0.14**	0.16	0.19	1380	1660	0.85	0.60	0.65	3.1	2.2	2.6	0.00019	4.7
63 4B EX	**0.18**	**0.22**	0.25	0.30	1330	1600	1.30	0.68	0.75	3.0	1.9	2.3	0.00022	5.1
63 4C EX	**0.25**	**0.30**	0.34	0.41	1320	1585	1.85	0.66	1.05	2.9	2.0	2.2	0.00035	5.5
71 4A EX	**0.25**	**0.30**	0.34	0.41	1420	1705	1.70	0.70	1.00	3.3	2.3	2.5	0.00048	6.4
71 4B EX	**0.37**	**0.44**	0.50	0.60	1425	1710	2.50	0.62	1.35	3.5	2.4	2.3	0.00056	7.2
80 4A EX	**0.55**	**0.66**	0.74	0.98	1410	1690	3.80	0.73	1.50	3.7	2.0	2.0	0.0010	9.9
80 4B EX	**0.75**	**0.90**	1.00	1.20	1430	1715	5.10	0.70	2.10	4.0	2.1	2.1	0.0018	10.8
90L 4A EX	**1.10**	**1.32**	1.50	1.80	1437	1725	7.40	0.72	2.75	5.2	2.8	3.1	0.0032	16.6
90L 4B EX	**1.50**	**1.80**	2.00	2.40	1415	1700	10.1	0.75	3.55	6.0	2.6	3.0	0.0050	16.7
100 4A EX	**2.20**	**2.64**	3.00	3.60	1440	1730	14.6	0.76	4.90	6.9	3.0	3.6	0.0055	23.5
100 4C EX	**3.00**	**3.60**	4.00	4.80	1425	1710	20.2	0.70	7.70	5.4	2.0	2.5	0.0070	25.1
112 4A EX	**4.00**	**4.80**	5.50	6.60	1445	1735	26.5	0.81	8.50	7.0	2.1	3.0	0.026	29.8
132S 4A EX	**5.5**	**6.6**	7.5	9.00	1460	1750	36.0	0.85	11.7	6.9	2.6	3.3	0.025	54.3
132M 4B EX	**7.5**	**9.0**	10.0	12.0	1460	1750	49.1	0.76	15.9	7.0	2.2	2.7	0.033	54.4
1000 min^{-1}														
71 6A EX	**0.18**	**0.22**	0.25	0.30	925	1110	1.90	0.70	0.65	3.1	1.8	2.0	0.6	6.4
71 6B EX	**0.25**	**0.30**	0.34	0.41	920	1105	2.60	0.71	0.90	3.1	1.9	2.1	0.9	7.3

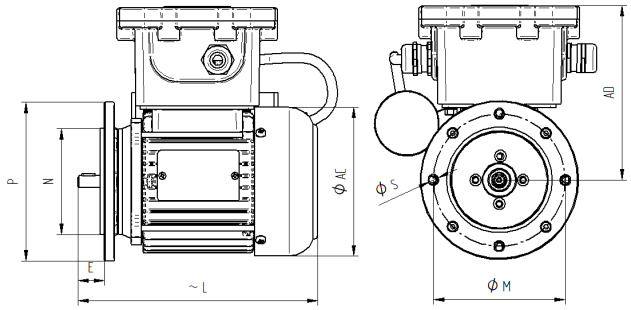


IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
56	56	188	182	113	90	71	110	81	7	6	6	36	20	9	-	10	3x3
63	63	204	210	124	100	80	120	100	10	7	7	40	23	11	M4	12.5	4x4
71	71	220	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5

IEC B14	P	N	M	T	LA	S	AD	TB/TL
56	80	50	65	2.5	10	M5	132	122
63	90	60	75	2.5	10.5	M5	141	122
71	105	70	85	2.5	12.8	M6	149	122



IEC B5	P	N	M	T	LA	S	AD	TB/TL
56	120	80	100	3.0	8.0	7	132	122
63	140	95	115	3.0	8.0	10	141	122
71	160	110	130	3.5	10.0	10	149	122



MONO
EX SERİSİ

Gerilim : 230V 50Hz/60Hz
İzl Sınıfı : F
IP : 65
İşl. Türü : S1
Serifika No : IEP 21 ATEX 0995X

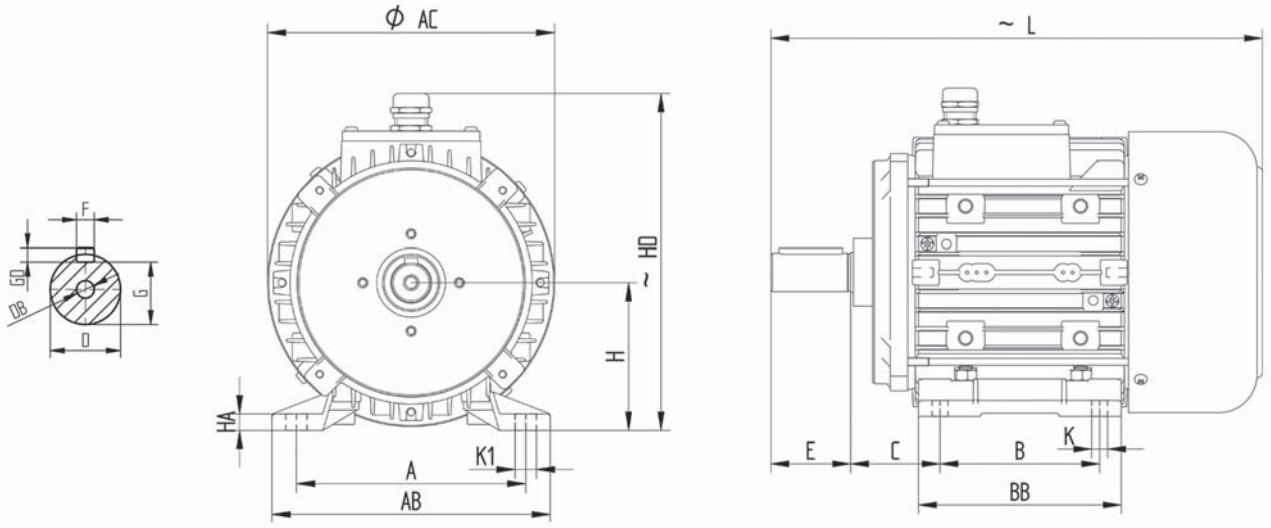
Tip	$Pn_{(kW)}$		HP		min^{-1}		Tn	cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	kg
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Nm		400V				kgm^2	
3000 min^{-1}														
56 2A EX	**0.09**	**0.11**	0.12	0.15	2825	3295	0.31	0.99	0.69	3.6	0.7	1.9	0.00014	4.0
56 2B EX	**0.12**	**0.14**	0.16	0.21	2795	3305	0.40	0.97	0.93	3.6	0.7	1.9	0.00015	4.2
56 2C EX	**0.18**	**0.22**	0.25	0.33	2800	3355	0.62	0.98	0.98	3.4	0.7	1.7	0.00016	4.4
63 2A EX	**0.18**	**0.22**	0.25	0.30	2785	3345	0.63	0.69	0.65	4.2	2.3	2.7	0.0001	4.8
63 2B EX	**0.25**	**0.30**	0.34	0.41	2755	3310	0.87	0.78	0.70	4.5	2.4	2.8	0.00012	5.3
63 2C EX	**0.37**	**0.44**	0.50	0.60	2760	3315	1.30	0.70	1.20	4.3	2.3	2.6	0.00021	5.7
71 2A EX	**0.37**	**0.44**	0.50	0.60	2790	3350	1.25	0.71	1.10	4.0	2.5	2.6	0.00032	6.5
71 2B EX	**0.55**	**0.66**	0.74	0.98	2760	3310	1.90	0.80	1.45	4.5	2.4	2.5	0.00065	7.4
1500 min^{-1}														
56 4A EX	**0.09**	**0.11**	0.12	0.15	2815	3370	0.31	0.70	0.30	2.1	0.41	1.4	0.00014	4.0
56 4B EX	**0.12**	**0.14**	0.16	0.21	2835	3395	0.41	0.75	0.35	2.3	0.39	1.8	0.00015	4.2
56 4C EX	**0.18**	**0.22**	0.25	0.33	2800	3355	0.62	0.84	0.50	2.6	0.40	1.7	0.00016	4.4
63 4A EX	**0.12**	**0.14**	0.16	0.19	1380	1660	0.85	0.60	0.65	3.1	2.2	2.6	0.00019	4.7
63 4B EX	**0.18**	**0.22**	0.25	0.30	1330	1600	1.30	0.68	0.75	3.0	1.9	2.3	0.00022	5.1
63 4C EX	**0.25**	**0.30**	0.34	0.41	1320	1585	1.85	0.66	1.05	2.9	2.0	2.2	0.00035	5.5
71 4A EX	**0.25**	**0.30**	0.34	0.41	1420	1705	1.70	0.70	1.00	3.3	2.3	2.5	0.00048	6.4
71 4B EX	**0.37**	**0.44**	0.50	0.60	1425	1710	2.50	0.62	1.35	3.5	2.4	2.3	0.00056	7.2

Gerilim : 400V 50Hz/460V 60Hz
İzl Sınıfı : F
İşl. Türü : S1
IP : 65
Serifika No : IEP 19 ATEX 0710

FX SERİSİ

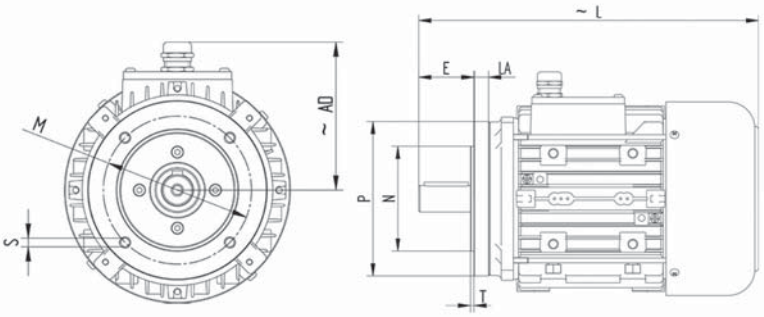
II 2G EX db mb IIC T4 Gb
II 2D EX tb mb IIIC t120°C Db

Tip	$Pn_{(kW)}$		HP		min^{-1}		Tn	cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	kg
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Nm		400V				10^{-3} kgm^2	
3000 min^{-1}														
63 2A FX	**0.18**	**0.22**	0.25	0.30	2785	3345	0.63	0.69	0.65	4.2	2.3	2.7	0.1	3.7
63 2B FX	**0.25**	**0.30**	0.34	0.41	2755	3310	0.87	0.78	0.70	4.5	2.4	2.8	0.1	4.2
63 2C FX	**0.37**	**0.44**	0.50	0.60	2760	3315	1.30	0.70	1.20	4.3	2.3	2.6	0.2	4.6
71 2A FX	**0.37**	**0.44**	0.50	0.60	2790	3350	1.25	0.71	1.10	4.0	2.5	2.6	0.3	5.4
71 2B FX	**0.55**	**0.66**	0.74	0.98	2760	3310	1.90	0.80	1.45	4.5	2.4	2.5	0.6	6.3
80 2A FX	**0.75**	**0.90**	1.00	1.20	2800	3360	2.50	0.82	1.85	4.8	3.2	3.0	0.7	8.0
80 2B FX	**1.10**	**1.32**	1.50	1.80	2790	3350	3.80	0.83	2.60	5.0	2.5	3.2	0.8	9.1
90S 2A FX	**1.50**	**1.80**	2.00	2.40	2865	3440	5.00	0.83	3.25	6.1	2.4	2.6	1.3	12.3
90L 2B FX	**2.20**	**2.64**	3.00	3.60	2875	3450	7.30	0.81	4.75	6.6	2.7	2.9	1.6	14.2
100 2A FX	**3.00**	**3.60**	4.00	4.80	2875	3450	9.95	0.80	6.45	6.7	2.6	3.1	2.6	19.1
100 2B FX	**4.00**	**4.80**	5.50	6.60	2865	3440	13.2	0.88	7.50	7.6	2.7	3.0	6.8	22.6
112 2A FX	**4.00**	**4.80**	5.50	6.60	2895	3475	13.3	0.86	7.75	6.6	2.2	2.6	4.6	26.6
112 2B FX	**5.50**	**6.60**	7.50	9.00	2890	3470	17.8	0.90	9.80	7.3	2.1	2.3	5.0	27.8
1500 min^{-1}														
63 4A FX	**0.12**	**0.14**	0.16	0.19	1380	1660	0.85	0.60	0.65	3.1	2.2	2.6	0.2	3.6
63 4B FX	**0.18**	**0.22**	0.25	0.30	1330	1600	1.30	0.68	0.75	3.0	1.9	2.3	0.2	4.0
63 4C FX	**0.25**	**0.30**	0.34	0.41	1320	1585	1.95	0.66	1.05	2.9	2.0	2.2	0.3	4.4
71 4A FX	**0.25**	**0.30**	0.34	0.41	1420	1705	1.70	0.70	1.00	3.3	2.3	2.5	0.4	6.3
71 4B FX	**0.37**	**0.44**	0.50	0.60	1425	1710	2.50	0.62	1.35	3.5	2.4	2.3	0.5	6.1
80 4A FX	**0.55**	**0.66**	0.74	0.98	1410	1690	3.80	0.73	1.50	3.7	2.0	2.0	0.6	8.8
80 4B FX	**0.75**	**0.90**	1.00	1.20	1430	1715	5.10	0.70	2.10	4.0	2.1	2.1	0.8	9.7
90S 4A FX	**1.10**	**1.32**	1.50	1.80	1420	1705	7.40	0.73	2.80	5.5	2.8	3.1	0.8	13.0
90L 4B FX	**1.50**	**1.80**	2.00	2.40	1415	1700	10.1	0.75	3.55	6.0	2.6	3.0	0.9	15.6
100 4A FX	**2.20**	**2.64**	3.00	3.60	1430	1715	14.6	0.76	4.90	5.6	2.1	2.7	1.2	21.3
100 4C FX	**3.00**	**3.60**	4.00	4.80	1425	1710	20.2	0.70	7.70	5.4	2.0	2.5	1.6	24.0
112 4C FX	**4.00**	**4.80**	5.50	6.60	1445	1735	26.5	0.81	8.50	7.0	2.1	3.0	2.7	28.7
1000 min^{-1}														
71 6A FX	**0.18**	**0.22**	0.25	0.30	925	1110	1.90	0.70	0.65	3.1	1.8	2.0	0.8	5.3
71 6B FX	**0.25**	**0.30**	0.34	0.41	920	1105	2.60	0.71	0.90	3.1	1.9	2.1	1.0	6.2
80 6A FX	**0.37**	**0.44**	0.50	0.60	930	1120	3.85	0.65	1.35	3.7	1.9	2.2	1.9	7.9
80 6B FX	**0.55**	**0.66**	0.75	0.90	920	1105	2.60	0.71	0.90	3.6	1.7	2.0	2.5	9.5
90 6A FX	**0.75**	**0.90**	1.00	1.20	911	1095	7.87	0.64	2.60	3.7	1.8	1.9	3.2	11.1
90 6B FX	**1.10**	**1.32**	1.50	1.80	912	1095	11.5	0.67	3.60	3.8	1.8	1.9	4.2	14.0
100 6A FX	**1.50**	**1.80**	2.00	2.40	935	1120	15.4	0.75	4.40	4.5	2.0	2.0	9.2	19.5
112 6A FX	**2.20**	**2.64**	3.00	3.60	930	1115	22.4	0.75	5.20	4.4	2.0	2.1	9.2	25.4

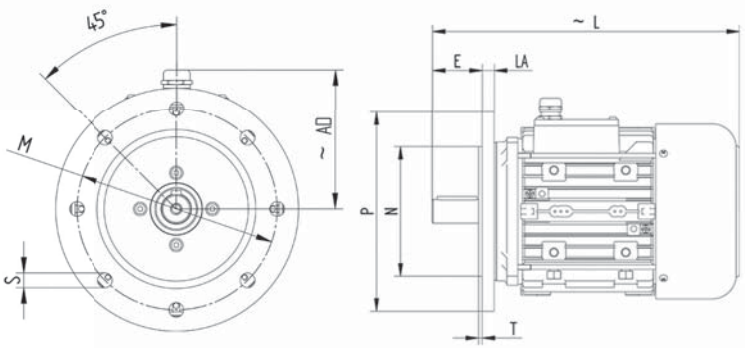


IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
63	63	155	211	124	100	80	120	100	10	7	7	40	23	11	M4	12.5	4x4
71	71	171	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5
80	80	188	273	157	125	100	152	129	13	10	10	50	40	19	M6	21.5	6x6
90S	90	205	308	175	140	100	170	127	13	10	10	56	50	24	M8	27.0	8x8
90L	90	205	333	175	140	125	170	152	13	10	10	56	50	24	M8	27.0	8x8
100	100	225	375	194	160	140	192	165	18	12	10	63	60	28	M10	31.0	8x8
112	112	252	387	218	190	140	230	175	18	12	14	70	60	28	M10	31.0	8x8

IEC B14	P	N	M	T	LA	S	AD
63	90	60	75	2.5	10.5	M5	92
71	105	70	85	2.5	12.8	M6	100
80	122	80	100	3.0	13.8	M6	108
90 S/L	180	95	115	3.0	13.8	M8	115
100	160	110	130	3.5	16.0	M8	125
112	160	110	130	3.5	16.0	M8	140



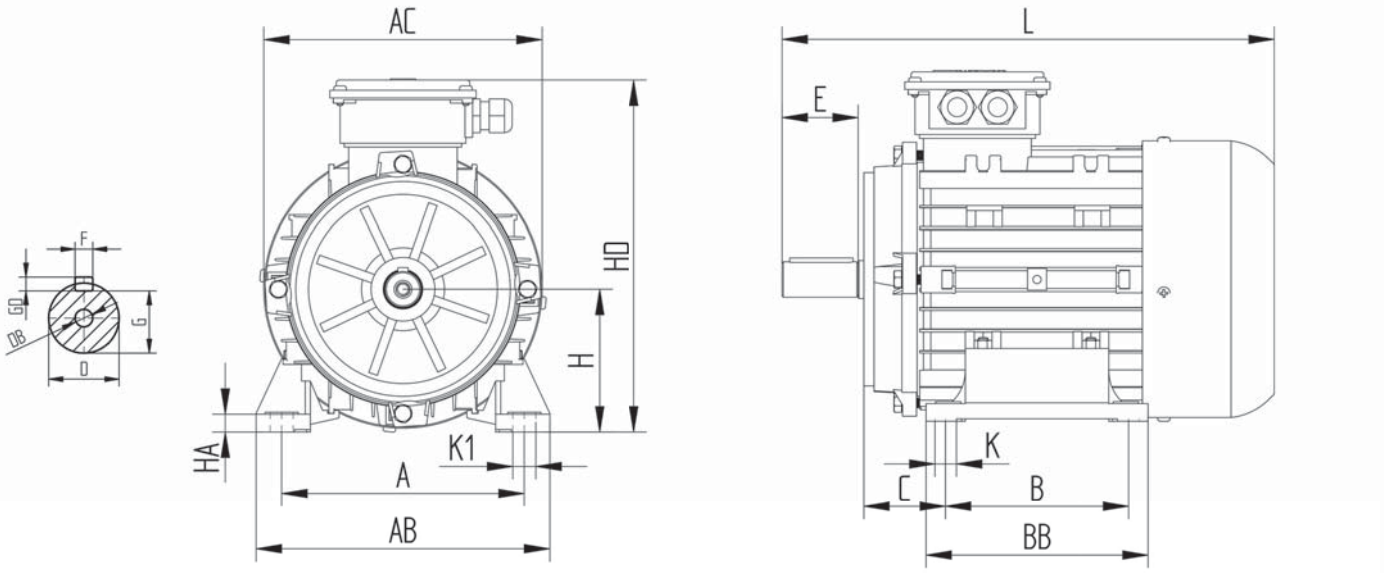
IEC B5	P	N	M	T	LA	S	AD
63	140	95	115	3.0	8.0	10	141
71	160	110	130	3.5	10.0	10	149
80	200	130	165	3.5	12.0	12	156
90 S/L	200	130	165	3.5	13.8	12	158
100	250	180	215	4.0	16.0	13	174
112	250	180	215	4.0	16.0	13	140



TX SERİSİ

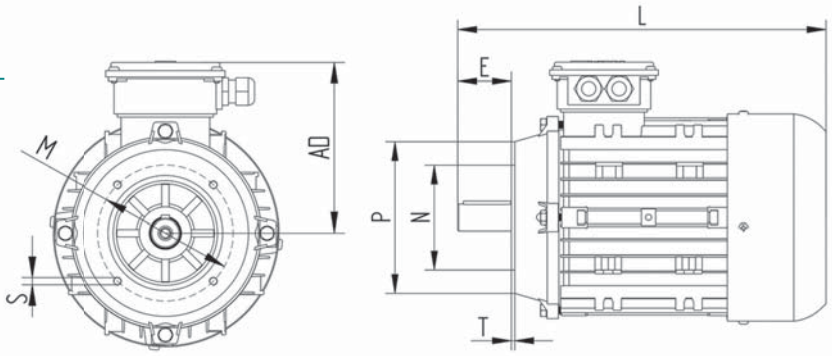
Gerilim : 400V 50Hz/460V 60Hz
İzl Sınıfı : F
İşl. Türü : S1
IP : 65
Serifika No : IEP 18 ATEX 0584

Tip	$Pn_{(kW)}$		HP		min^{-1}		Tn	cos φ	I_n	I_A/I_N	M_A/M_N	M_K/M_N	J	kg
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Nm		400V				10^{-3} kgm^2	
3000 min^{-1}														
63 2A TX	**0.18**	**0.22**	0.25	0.30	2785	3345	0.63	0.69	0.65	4.2	2.3	2.7	0.1	3.8
63 2B TX	**0.25**	**0.30**	0.34	0.41	2755	3310	0.87	0.78	0.70	4.5	2.4	2.8	0.1	4.3
63 2C TX	**0.37**	**0.44**	0.50	0.60	2780	3335	1.27	0.69	1.10	4.4	2.2	2.6	0.2	4.5
71 2A TX	**0.37**	**0.44**	0.50	0.60	2790	3350	1.25	0.71	1.10	4.0	2.5	2.6	0.3	5.5
71 2B TX	**0.55**	**0.66**	0.74	0.98	2760	3310	1.90	0.80	1.45	4.5	2.4	2.5	0.6	6.4
71 2C TX	**0.75**	**0.90**	1.00	1.20	2750	3300	2.63	0.81	1.80	4.7	2.6	28	0.6	7.7
80 2A TX	**0.75**	**0.90**	1.00	1.20	2800	3360	2.50	0.82	1.85	4.8	3.2	3.0	0.7	8.1
80 2B TX	**1.10**	**1.32**	1.50	1.80	2790	3350	3.80	0.83	2.60	5.0	2.5	3.2	0.8	9.2
80 2C TX	**1.50**	**1.80**	2.00	2.40	2830	3395	5.05	0,81	3.35	6.2	2.8	3.1	1.0	10.2
90S 2A TX	**1.50**	**1.80**	2.00	2.40	2865	3440	5.00	0.83	3.25	6.1	2.4	2.6	1.3	13.4
90L 2B TX	**2.20**	**2.64**	3.00	3.60	2875	3450	7.30	0.81	4.75	6.6	2.7	2.9	1.6	15.3
90L 2C TX	**3.00**	**3.60**	4.00	4.80	2865	3440	10.2	0.82	6.60	6.7	2.9	3.1	1.9	17.5
100 2A TX	**3.00**	**3.60**	4.00	4.80	2875	3450	9.95	0.80	6.45	6.7	2.6	3.1	2.6	20.2
100 2B TX	**4.00**	**4.80**	5.50	6.60	2865	3440	13.2	0.88	7.50	7.6	2.7	3.0	6.8	23.7
112 2A TX	**4.00**	**4.80**	5.50	6.60	2895	3475	13.3	0.86	7.75	6.6	2.2	2.6	4.6	27.7
112 2B TX	**5.50**	**6.60**	7.50	9.00	2890	3470	17.8	0.90	9.80	7.3	2.1	2.3	5.0	28.9
132S 2A TX	**5.50**	**6.60**	7.50	9.00	2885	3465	18.3	0.89	10.3	8.6	2.2	2.7	10.0	41.2
132S 2B TX	**7.50**	**9.00**	10.0	12.0	2925	3510	24.5	0.90	13.5	8.4	2.3	2.6	12.0	47.1
132M 2C TX	**11.0**	**13.2**	15.0	15.0	2930	3515	35.9	0.90	19.7	7.2	2.0	2.2	21.0	58.0
1500 min^{-1}														
63 4A TX	**0.12**	**0.14**	0.16	0.19	1380	1660	0.85	0.60	0.65	3.1	2.2	2.6	0.2	4.7
63 4B TX	**0.18**	**0.22**	0.25	0.30	1330	1600	1.30	0.68	0.75	3.0	1.9	2.3	0.2	5.1
71 4A TX	**0.25**	**0.30**	0.34	0.41	1420	1705	1.70	0.70	1.00	3.3	2.3	2.5	0.4	6.4
71 4B TX	**0.37**	**0.44**	0.50	0.60	1425	1710	2.50	0.62	1.35	3.5	2.4	2.3	0.5	7.2
80 4A TX	**0.55**	**0.66**	0.74	0.98	1410	1690	3.80	0.73	1.50	3.7	2.0	2.0	0.6	9.9
80 4B TX	**0.75**	**0.90**	1.00	1.20	1430	1715	5.10	0.70	2.10	4.0	2.1	2.1	0.8	10.8
90S 4A TX	**1.10**	**1.32**	1.50	1.80	1420	1705	7.40	0.73	2.80	5.5	2.8	3.1	0.8	14.1
90L 4B TX	**1.50**	**1.80**	2.00	2.40	1415	1700	10.1	0.75	3.55	6.0	2.6	3.0	0.9	16.7
100 4A TX	**2.20**	**2.64**	3.00	3.60	1430	1715	14.6	0.76	4.90	5.6	2.1	2.7	1.2	22.4
100 4C TX	**3.00**	**3.60**	4.00	4.80	1425	1710	20.2	0.70	7.70	5.4	2.0	2.5	1.6	25.1
112 4C TX	**4.00**	**4.80**	5.50	6.60	1445	1735	26.5	0.81	8.50	7.0	2.1	3.0	2.7	29.8
132S 4A TX	**5.50**	**6.60**	7.50	9.00	1455	1745	36.4	0.78	11.7	6.9	2.5	2.9	9.0	41.0
132M 4A TX	**7.50**	**9.00**	10.0	12.0	1460	1750	49.1	0.76	15.9	7.0	2.2	2.7	12.0	51.4

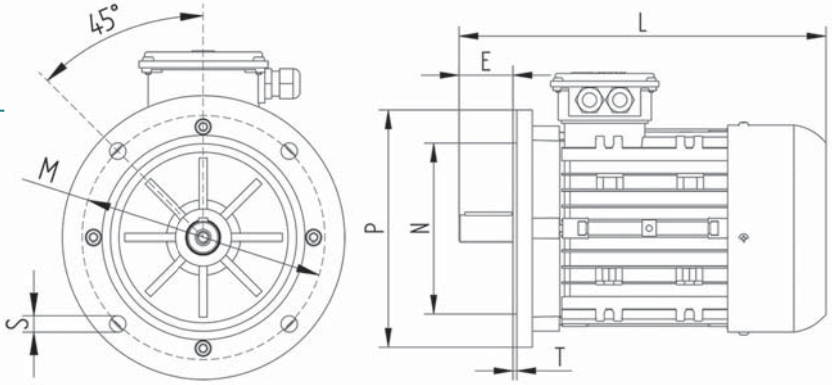


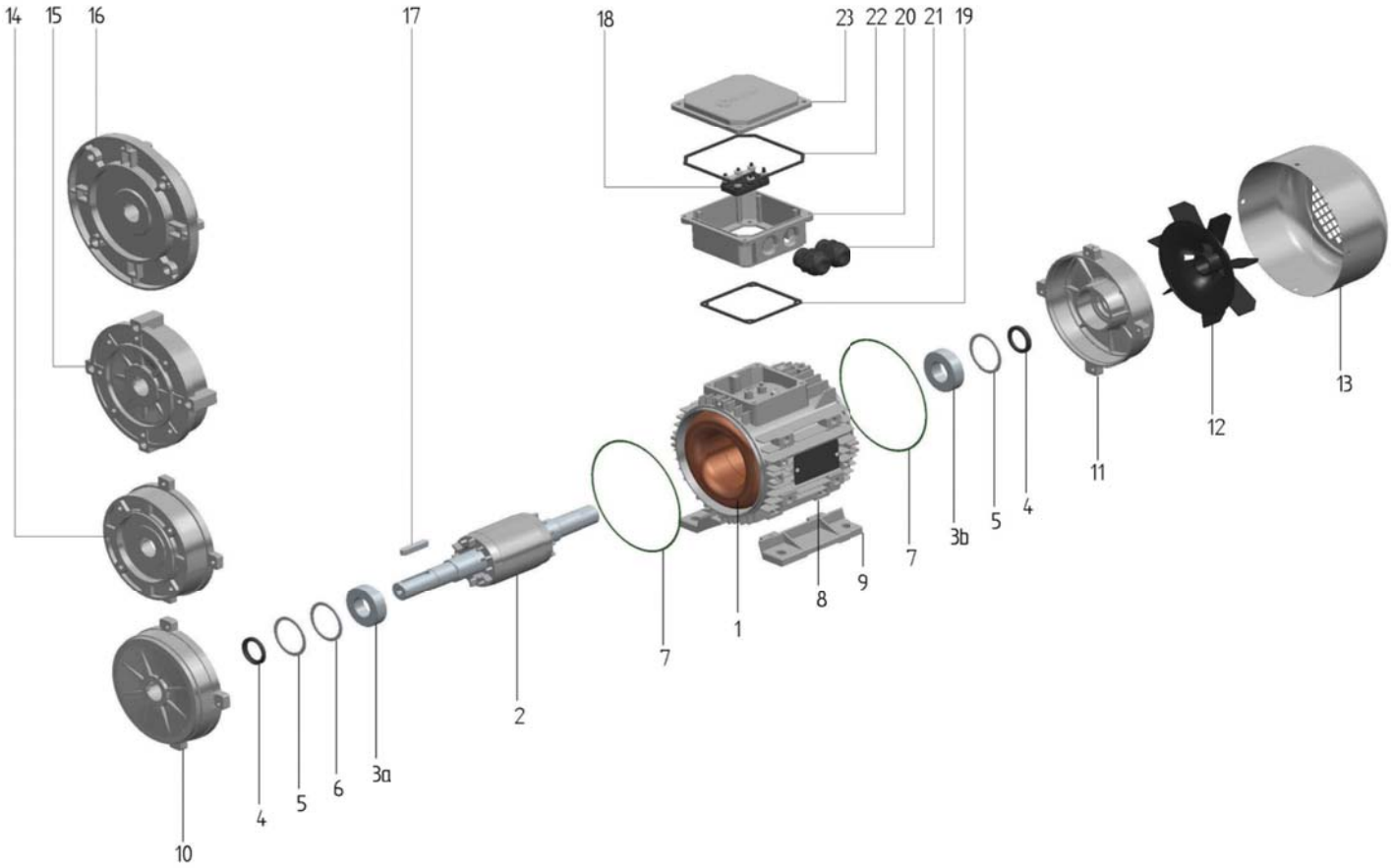
IEC	H	HD	L	AC	A	B	AB	BB	K1	K	HA	C	E	D	DB	GA	FxGD
63	63	168	210	124	100	80	120	100	10	7	7	40	23	11	M4	12.5	4x4
71	71	184	243	138	112	90	135	109	12	7	8	45	30	14	M5	16.0	5x5
80	80	201	273	157	125	100	152	129	13	10	10	50	40	19	M6	21.5	6x6
90S	90	229	305	175	140	100	170	127	13	10	10	58	50	24	M8	27.0	8x8
90L	90	229	333	175	140	125	170	152	13	10	10	58	50	24	M8	27.0	8x8
100	100	251	375	194	160	140	192	165	18	12	10	63	60	28	M10	31.0	8x8
112	112	276	388	218	190	140	230	175	18	12	14	71	60	28	M10	31.0	8x8
132S	132	328	464	258	216	140	260	180	28	12	16	89	80	38	M12	41.0	10x8
132M	132	328	493	258	216	178	260	218	28	12	16	89	80	38	M12	41.0	10x8

IEC B14	P	N	M	T	S	AD
63	90	60	75	2.5	M5	105
71	105	70	85	2.5	M6	113
80	122	80	100	3.0	M6	121
90 S/L	180	95	115	3.0	M8	139
100	160	110	130	3.5	M8	151
112	160	110	130	3.5	M8	164
132	200	130	165	3.5	M10	196



IEC B5	P	N	M	T	S	AD
63	140	95	115	3.0	10	105
71	160	110	130	4.0	10	113
80	200	130	165	3.5	12	121
90 S/L	200	130	165	3.0	12	139
100	250	180	215	4.0	15	151
112	250	180	215	4.0	15	164
132	300	230	265	4.0	15	196





1	Sargılı stator	12	Soğutma pervanesi
2	Milli rotor	13	Soğutma mahfaza tası
3a	Ön rulman	14	B14 flanş
3b	Arka rulman	15	B14 büyük flanş
4	Keçe/V-Ring	16	B5 flanş
5	Rulman pul	17	Kama
6	Rulman baskı yayı	18	Klemens
7	Klingrit conta	19	klemens kutusu conta(alt)
8	Gövde	20	Trifaze klemens kutusu(alt)
9	Ayak	21	Kablo giriş rakoru
10	Ön kapak	22	Klemens kutusu conta(üst)
11	Arka kapak	23	Trifaze klemens kutusu kapağı(üst)