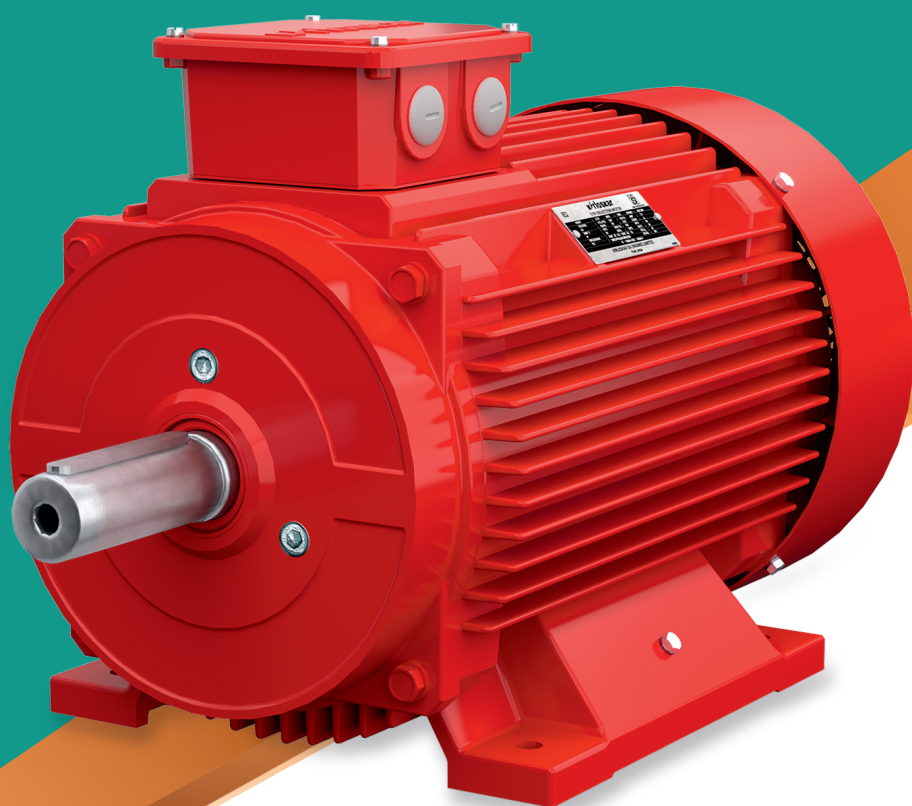


PRODUCT CATALOG

LOW VOLTAGE 3-PHASE FIRE FIGHTING INDUCTION MOTORS



kirloskar
motors

Performance Beyond Expectations

KIRLOSKAR OIL ENGINES LIMITED
A Kirloskar Group Company

A Fire Fighting system is probably the most important of all Industrial services, as its aim is to protect the human life & industrial property, strictly in that order. The National Safety Council (NSC) of India keeps an eye on the Safety Rules & Regulations.

Fire pump is an essential lifeguard for fireworks industries, petrochemical industries, gas plants, commercial complex, high-rise buildings, apartments, hotels, hospitals, schools & colleges, godowns, airports, ports, power stations, transformer stations etc.

To meet the diversified needs of our customers we have designed, tested & manufactured fire fighting motors. Fire fighting motors consists of Jockey motor & Electrical main motor.

Performance Data - IE2 Efficiency Fire Fighting Induction Motors (Cast Iron):

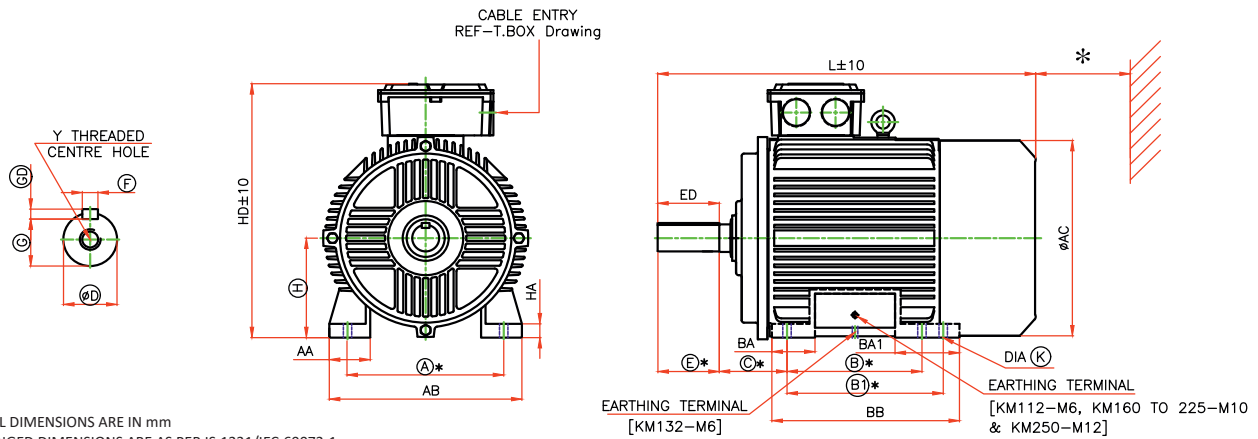
POLE	2 (3000 RPM)					AMBIENT 50 °C			INSULATION CLASS F							
VOLTAGE	415 ± 10%					DUTY S1			THERMAL CLASS F							
FREQUENCY	50 ± 5%					EFFICIENCY CLASS AS PER IEC60034-30-1:2014, IS 12615:2018										
COMBINED VARIATION	10%															
Product Code	Output	Frame Size	Rated Speed	FLC	FLT	% Efficiency			Power Factor			Starting Current	Starting Torque	Pull Out Torque	GD²	Net Weight
	kW		RPM	A	Kg-m	FL	3/4 FL	1/2 FL	FL	3/4 FL	1/2 FL	% FLC	% FLT	% FLT	kg-m²	kg
KM2.5T50.AJC.B03.TSN	5.5	KM112M	2860	10.1	1.87	87.0	87.0	85.0	0.87	0.84	0.76	600	200	250	0.036	42
KM2.7T50.AJC.B03.TSN	7.5	KM112M	2875	13.5	2.54	88.1	87.5	85.0	0.88	0.85	0.78	650	200	250	0.043	52
KM2.9T30.AAC.B03.TSN	9.3	KM132S	2900	16.6	3.12	88.9	88.9	87.0	0.88	0.85	0.80	650	200	250	0.077	72
KM2.11T0.AKC.B03.TSN	11	KM132M	2860	19.5	3.75	89.4	89.4	88.0	0.88	0.86	0.82	650	225	250	0.092	82
KM2.15T0.AKC.B03.TSN	15	KM132M	2900	26.6	5.04	90.3	90.3	88.5	0.87	0.83	0.75	700	250	300	0.113	86
KM2.18T5.ABC.B03.TSN	18.5	KM160M	2900	31	6.21	90.9	90.9	90.0	0.90	0.88	0.85	650	200	250	0.186	132
KM2.22T0.ALC.B03.TSN	22	KM160L	2915	37	7.35	91.3	91.3	90.5	0.90	0.88	0.85	650	200	250	0.231	146
KM2.30T0.ACC.B03.TSN	30	KM180M	2930	51	9.97	92.0	91.0	90.0	0.89	0.86	0.81	650	180	250	0.646	184
KM2.37T0.AMC.B03.TSN	37	KM180L	2945	63	12.24	92.5	91.0	89.0	0.88	0.85	0.80	650	200	250	0.790	209
KM2.45T0.ANC.B03.TSN	45	KM200L	2945	73	14.88	92.9	92.9	92.0	0.92	0.90	0.86	650	200	250	0.856	269
KM2.55T0.AQC.B03.TSN	55	KM225M	2955	89	18.13	93.2	92.5	91.0	0.92	0.90	0.86	650	200	250	0.995	288
KM2.60T0.AQC.B03.TSN	60**	KM225M	2950	97	19.81	93.4	93.4	92.0	0.92	0.90	0.86	650	200	250	0.995	288
KM2.67T0.ARC.B03.TSN	67	KM250M	2955	109	22.08	93.6	93.6	92.0	0.91	0.88	0.85	650	180	250	1.980	430
KM2.75T0.ARC.B03.TSN	75	KM250M	2955	122	24.72	93.8	93.2	92.0	0.91	0.89	0.85	650	180	250	2.181	446
KM2.90T0.ARC.B03.TSN	90	KM250M	2960	148	29.61	94.1	94.1	93.0	0.90	0.89	0.85	650	180	250	2.459	470
KM2.93T0.ARC.B03.TSN	93	KM250M	2955	153	30.65	94.1	94.1	93.0	0.90	0.89	0.85	650	180	250	2.459	470
KM2.110T.ARC.B03.TSN	110**	KM250M	2950	184	36.32	94.3	94.3	93.0	0.88	0.85	0.80	700	200	300	2.860	510

**Rating suitable for 40 °C ambient / 105 °C temperature rise on DOL (by resistance method)

Bearing Reference (2P):

Sr. No.	Frame	DE	NDE
1	112M	6206ZZ	6205ZZ
2	132S / M	6308ZZ	6208ZZ
3	160M / L	6309ZZ	6209ZZ
4	180M / L	6310ZZ	6310ZZ
5	200L	6312ZZ	6312ZZ
6	225M	6313ZZ	6312ZZ
7	250M	6315 C4	6315 C4

Dimensional Drawing For TEFC, Foot Mounted (B3) Motors: Frames: KM112 to KM250 (2P)

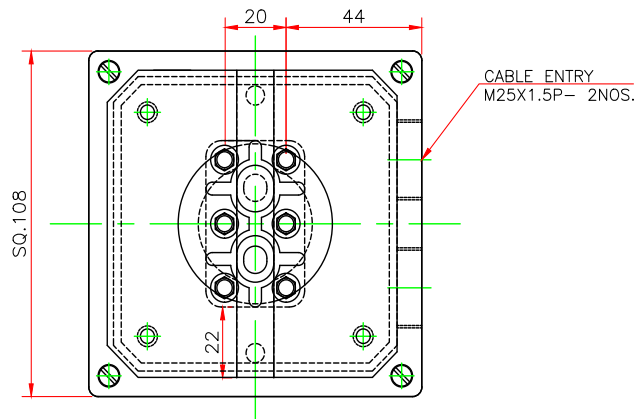


FRAME	FOOT FIXING											OVER ALL				SHAFT							
	A	B	B1	C	H TOL.	AA	AB	BA	BA1	BB	K	AC	L	HD	HA	D TOL.	E	ED	F TOL.	GD TOL.	G	Y	
KM112M	190	140	--	70	112/111.5	45	222	50	50	173	12/12.5	225	425	290	12	28.009/27.996	60	60	8/7.964	7.0/6.9	24.0/23.8	M10X30	
KM132S	216	140	--	89	132/131.5	55	260	60	60	178	12/12.5	258	470	330	18	38.018/38.002	80	80	10/9.964	8.0/7.9	33.0/32.8	M12X37	
KM132M	216	178	--	89	132/131.5	55	260	60	60	214	12/12.5	258	500	330	18	38.018/38.002	80	80	10/9.964	8.0/7.9	33.0/32.8	M12X37	
KM132M (15kW)	216	178	--	89	132/131.5	55	260	60	60	214	12/12.5	258	545	330	18	38.018/38.002	80	80	10/9.964	8.0/7.9	33.0/32.8	M12X37	
KM160M	254	210	--	108	160/159.5	70	306	80	80	258	15/15.5	314	620	417	22	42.018/42.002	110	110	12/11.957	8.0/7.9	37.0/36.8	M16X45	
KM160M/L	254	210	254	108	160/159.5	70	306	102	102	302	15/15.5	314	665	417	22	42.018/42.002	110	110	12/11.957	8.0/7.9	37.0/36.8	M16X45	
KM180M	279	241	--	121	180/179.5	75	350	78	78	298	15/15.5	352	670	460	25	48.018/48.002	110	110	14/13.957	9.0/8.9	42.5/42.3	M16X45	
KM180L	279	279	--	121	180/179.5	75	360	--	--	335	15/15.5	352	705	460	28	48.018/48.002	110	110	14/13.957	9.0/8.9	42.5/42.3	M16X45	
KM200L	318	267	305	133	200/199.5	70	380	111	111	357	19/19.5	402	775	505	26	55.030/55.011	110	110	16/15.957	10.0/9.9	49.0/48.8	M20X53	
KM225M	356	286	311	149	225/224.5	95	435	88	105	380	19/19.5	402	800	530	25	55.030/55.011	110	110	16/15.957	10.0/9.9	49.0/48.8	M20X53	
KM250M	406	311	349	168	250/249.5	95	480	125	125	420	24/24.5	445	950	665	35	60.030/60.011	140	140	18/17.957	11.0/10.9	53.0/52.8	M20X53	

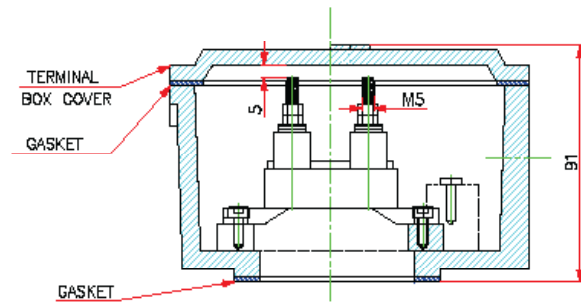
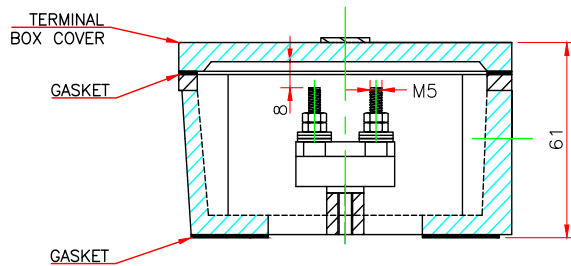
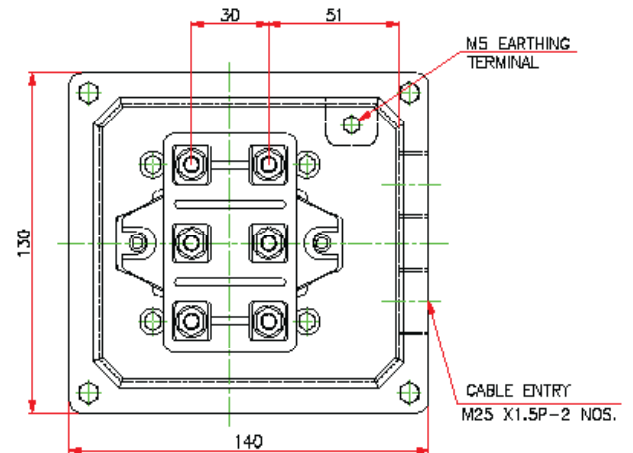
*100 mm MINIMUM DISTANCE TO BE MAINTAINED BY THE USER FOR EFFECTIVE COOLING.

Terminal Box Arrangement:

Frames: KM112 to KM132



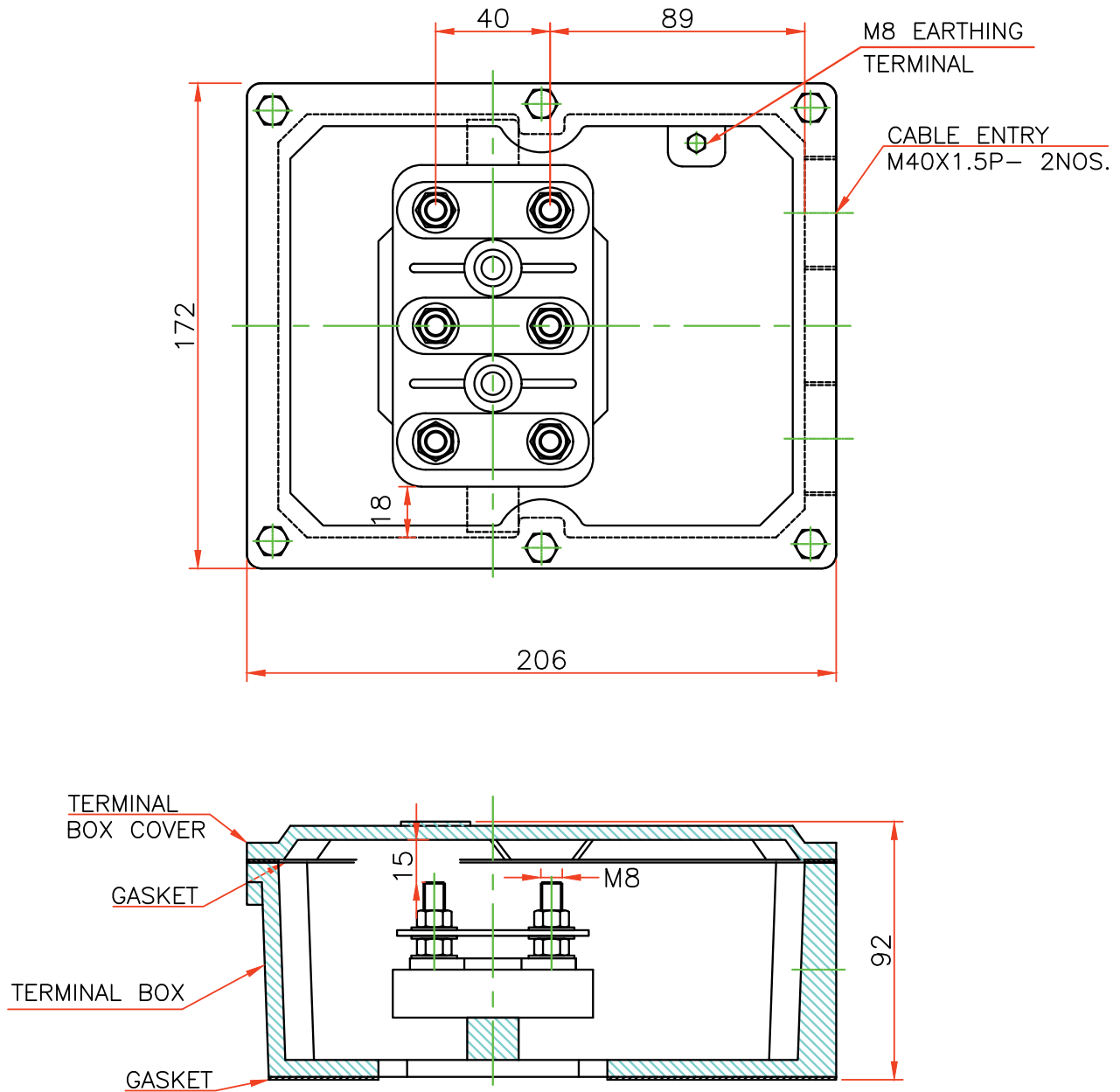
Frame: KM160



NOTES:

- * TERMINAL BOX CAN BE ROTATED IN 360° IN STEPS OF 90°.
- * CABLE GLANDS ARE NOT IN KIRLOSKAR SCOPE OF SUPPLY.

Terminal Box Arrangement: Frames: KM180 to KM225

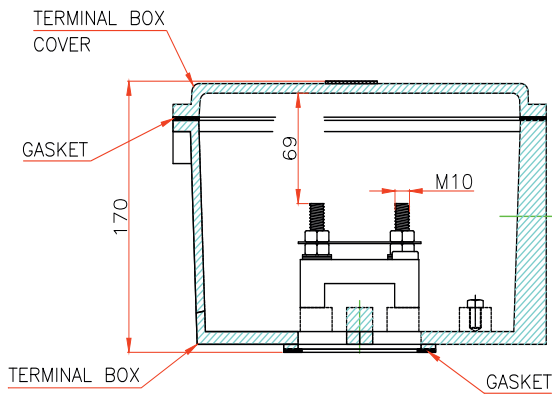
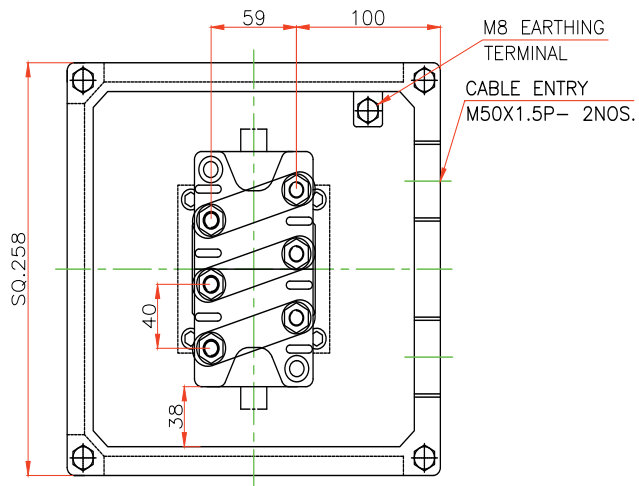


NOTES:

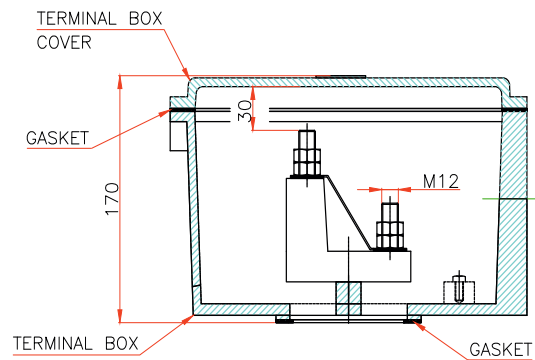
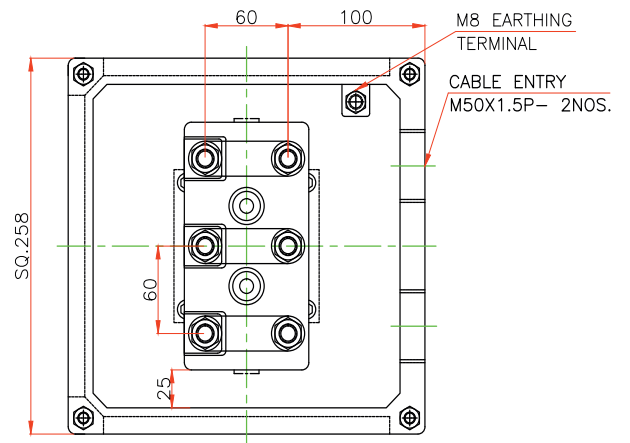
- * TERMINAL BOX CAN BE ROTATED IN 360° IN STEPS OF 90°.
- * CABLE GLANDS ARE NOT IN KIRLOSKAR SCOPE OF SUPPLY.

Terminal Box Arrangement:

Frame: KM250 (75 to 93kW)



Frame: KM250 (110kW)



NOTES:

- * TERMINAL BOX CAN BE ROTATED IN 360° IN STEPS OF 90°.
- * CABLE GLANDS ARE NOT IN KIRLOSKAR SCOPE OF SUPPLY.

Note:

A series of horizontal dotted lines for writing notes.

kirloskar motors

Performance Beyond Expectations

For more information, please contact us at “head.motors@kirloskar.com”

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