



DC MOTORS METRIC (IEC) FRAME • SCR RATED

DC Motors

DC METRIC (IEC) FRAME MOTORS IP54

General Specifications:

These metric dimensioned motors are built to IEC 34-1 electrical and mechanical standards.

The IEC 63 and smaller frames are stocked with an integral B5 flange or B14 face less base. An optional B3 rigid base kit is available.

A unique modular approach for IEC 71 frame and larger allows the motor to be field modified to B3 rigid base mounted construction, B5 flange mounted or B14 face mounted construction using conversion kits. Please note that one or more of the mounting kits must be used with IEC motors of these frame sizes. See listing on next page for B5 flange and B14 face kits. B3 rigid base kits are listed below.

Electrical & Mechanical Features:

A terminal board is provided for connections. All fasteners are metric. Electrical and mechanical features are the same as listed for the NEMA frame motors on the opposite page. Tachometer mounting kits are available for 71 and 80 frames only.



B5 IEC 56 & 63



B14 IEC 56 & 63



B3 FOOT MOUNTING KITS

(For DC Metric Motors Only)

All motors are stocked with provisions to accommodate B3 foot mountings with the packages noted below.

IEC Frame	Catalog Number	Disc. Sym.
56	175142	A
63	175143	A
71	175144	A
80	175145	A
90	175146	A

TOTALLY ENCLOSED • SCR RATED 180 VOLT S+ WITH B5 FLANGE

KW/HP	Full Load RPM	IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	F.L. Amps DC	"C" Dim. Inches (mm)
0.06/1/12	1800	56	M1130146●	S	8	0.5	6.24 (158.6)
0.09/1/8	3000	56	M1130150●	S	9	0.7	6.74 (171.3)
	1800	56	M1130147●	S	10	0.7	7.55 (191.7)
0.12/1/6	3000	56	M1130151●	S	9	0.9	7.55 (191.7)
	1800	63	M1130148	S	7	0.9	8.30 (210.8)
0.18/1/4	3000	63	M1130152●	S	11	1.3	8.78 (223.1)
	1800	63	M1130149	S	13	1.3	9.50 (241.3)
0.25/1/3	3000	63	M1130153	S	11	1.7	9.50 (241.3)

These motors have accommodations for B3 base mountings with the kits below.

TOTALLY ENCLOSED • SCR RATED 180 VOLT S+ WITH B14 FACE

KW/HP	Full Load RPM	IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	F.L. Amps DC	"C" Dim. Inches (mm)
0.06/1/12	3000	56	M1110024●	S	6	0.4	6.34 (177.0)
	1800	56	M1130136●	S	8	0.5	6.24 (158.6)
0.09/1/8	3000	56	M1130140●	S	9	0.7	6.74 (171.3)
	1800	56	M1130137●	S	14	0.7	7.55 (191.7)
0.12/1/6	3000	56	M1130141●	S	10	0.9	7.55 (191.7)
	1800	63	M1130138	S	8	0.9	8.30 (210.8)
0.18/1/4	3000	63	M1130142●	S	10	1.3	8.78 (223.1)
	1800	63	M1130139	S	10	1.3	9.50 (241.3)
0.25/1/3	3000	63	M1130143	S	10	1.7	9.50 (241.3)

Except for M1110024, these motors have accommodations for B3 base mountings with the kits below.

TEFC • SCR RATED 180 VOLT S+ • ROUND BODY

KW/HP	Full Load RPM	IEC Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	F.L. Amps DC	"C" Dim. Inches (mm)
0.25/1/3	1800	71	098014	A	23	1.7	11.28 (286.5)
0.37/1/2	3000	71	098016	A	21	2.5	10.78 (273.8)
	1800	71	098015	A	26	2.5	11.78 (299.2)
0.55/3/4	3000	71	098017	A	24	3.6	11.78 (299.2)
	1800	80	108369	A	34	3.5	14.64 (371.9)
0.75/1	3000	80	108372	A	45	4.9	14.64 (371.9)
	1800	80	108370	A	48	4.6	17.14 (435.4)
1.1/1/2	3000	80	108373	A	47	7.1	16.14 (410.0)
	1800	80	108371	A	52	7.0	17.14 (435.4)
	1800	90L	118007	B	64	7.5	18.97 (481.8)
1.5/2	3000	90L	118009	B	72	10.0	18.47 (469.1)
	1800	90L	118008	B	84	9.5	20.47 (519.9)
2.2/3	3000	90L	118010	B	82	16.0	19.47 (494.5)
	1800	112M	118014	B	90	14.0	21.79 (553.5)

IMPORTANT: These round body motors require either a B3 rigid base, B14 face or B5 flange kit. Catalog number 118014 comes complete with IEC 112 B14 face and B3 foot; shaft diameter is 24mm.

- ⚡ For 230 VAC input controls.
- These motors are totally enclosed, non-ventilated. Other ratings utilize IC41 cooling—external cooling fan on motor shaft.



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A unique modular approach for IEC 71 frame and larger allows the motor to be field modified to B3 rigid base mounted construction, B5 flange mounted or B14 face mounted construction using conversion kits. Please note that one or more of the mounting kits must be used with IEC motors of these frame sizes. See listing on page 85 for B5 flange and B14 face kits. B3 rigid base kits are listed below.



B5 IEC 56 & 63



B14 IEC 56 & 63

Electrical & Mechanical Features:

A terminal board is provided for connections. All fasteners are metric. Electrical and mechanical features are the same as listed for the NEMA frame motors on the opposite page. Tachometer mounting kits are available for 71 and 80 frames only.



71 & 80 IEC with Modular Flange & Base Kits

METRIC (IEC) FRAME • LOW VOLTAGE (24V)
• TEFC/TENV • MODULAR DESIGN

kW/HP	Full Load RPM	IEC Frame	Catalog Number	App. Wgt. (lbs.)	F.L. Amps DC	C Dim. (inches)
0.06/1/12	3000	56	M1110025 ^{▲●}	5	3.3	5.34
	1800	56	M1110026 ^{▲●}	6	3.4	6.34
0.18/1/4	3000	63	M1130206 [*]	13	11.0	7.75
	3000	63	M1130296 [▲]	9	11.0	7.75
	1800	63	M1130207 [*]	13	10.0	8.75
	1800	63	M1130297 [▲]	9	10.0	8.75
	1800	71	098065	19	11.0	10.77
0.37/1/2	3000	71	098066	23	20.0	11.27
	1800	71	098067	23	20.0	12.27
0.75/1	3000	80	108456 [◆]	33	40.0	14.14
	1800	80	108455 [◆]	52	39.0	14.64
1.1/1 1/2	3000	80	108457 [◆]	33	65.0	15.64
1.5/2	3000	80	108458 [◆]	43	78.0	17.14

IMPORTANT: IEC 71 and 80 frame motors in this chart are round body and require either B14 face, B5 flange or B3 foot from kits shown on pages 84-85.

* Dedicated B5 Flange

▲ Dedicated B14 Face

● These motors are totally enclosed, non-ventilated. Others are TEFC/IC41 cooling – external cooling fan on motor shaft.