



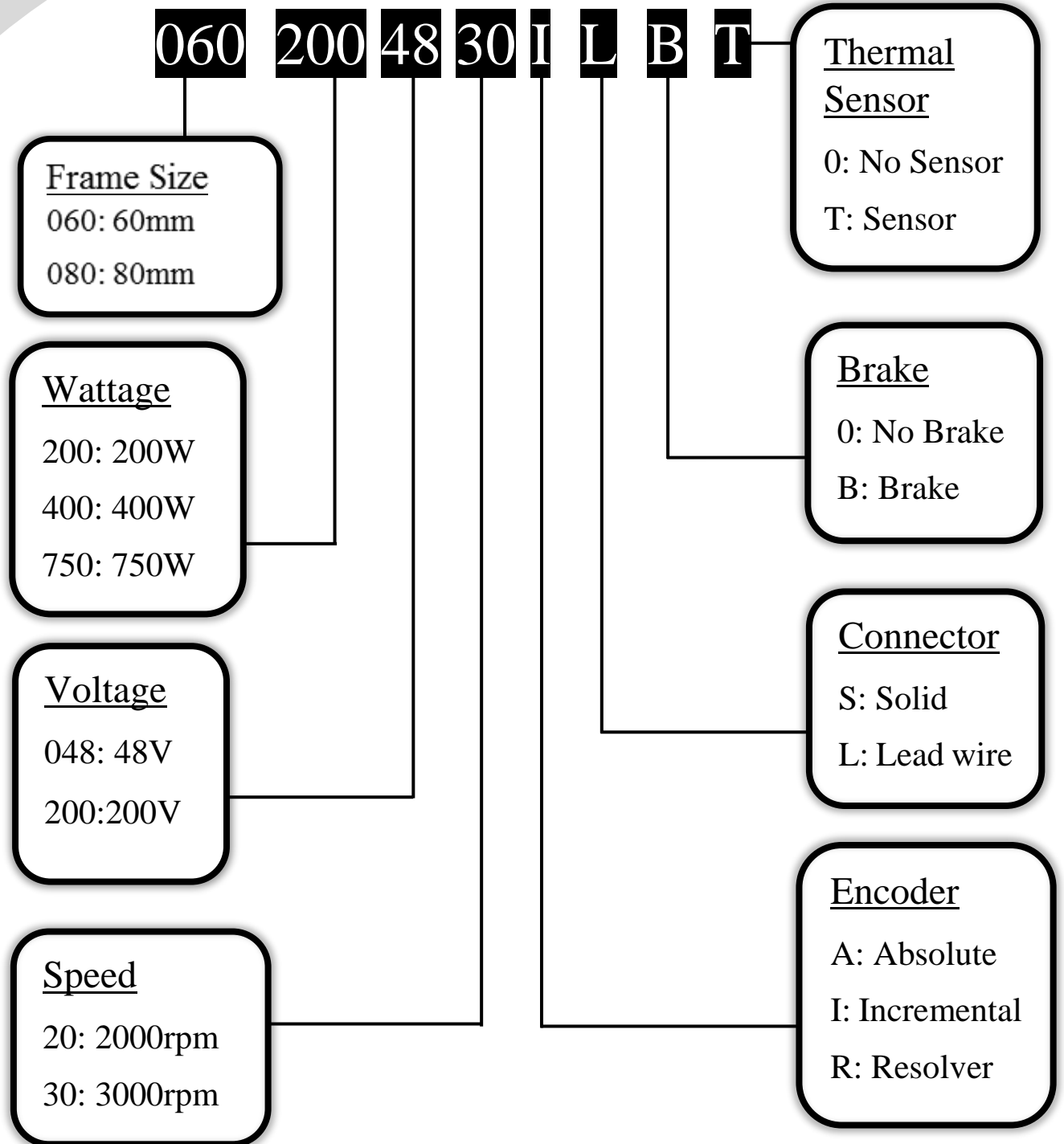
**MOVEMATIC**

# **BRUSHLESS SERVO MOTORS**

**Designed and Manufactured in India**



# Model Designations

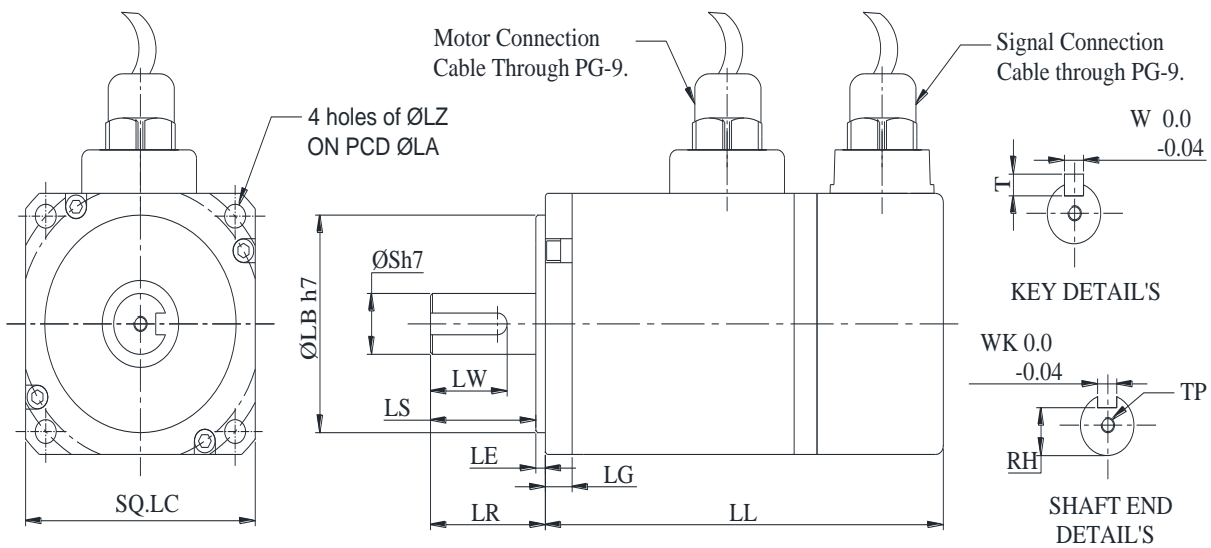


The motors are available with:

1. Various Feedback options
  2. Brakes
  3. Connectors
  4. Cables
- 10 Pole design
  - High Performance
  - Fits to various drives
  - Customization Available

# Mechanical Dimensions

Model	200W	400W	750W
LC	60	60	80
LZ	5.5	5.5	7.0
LA	70	70	90
S	14	14	19
LB	50	50	70
LL	105.5	144.0	141.0
LR	30	30	40
LE	3	3	3
LG	7	7	10
LW	20	20	30
RH	11	11	15.5
W	5	5	6
T	5	5	6
TP	M5 X 15	M5 X 15	M5 X 20



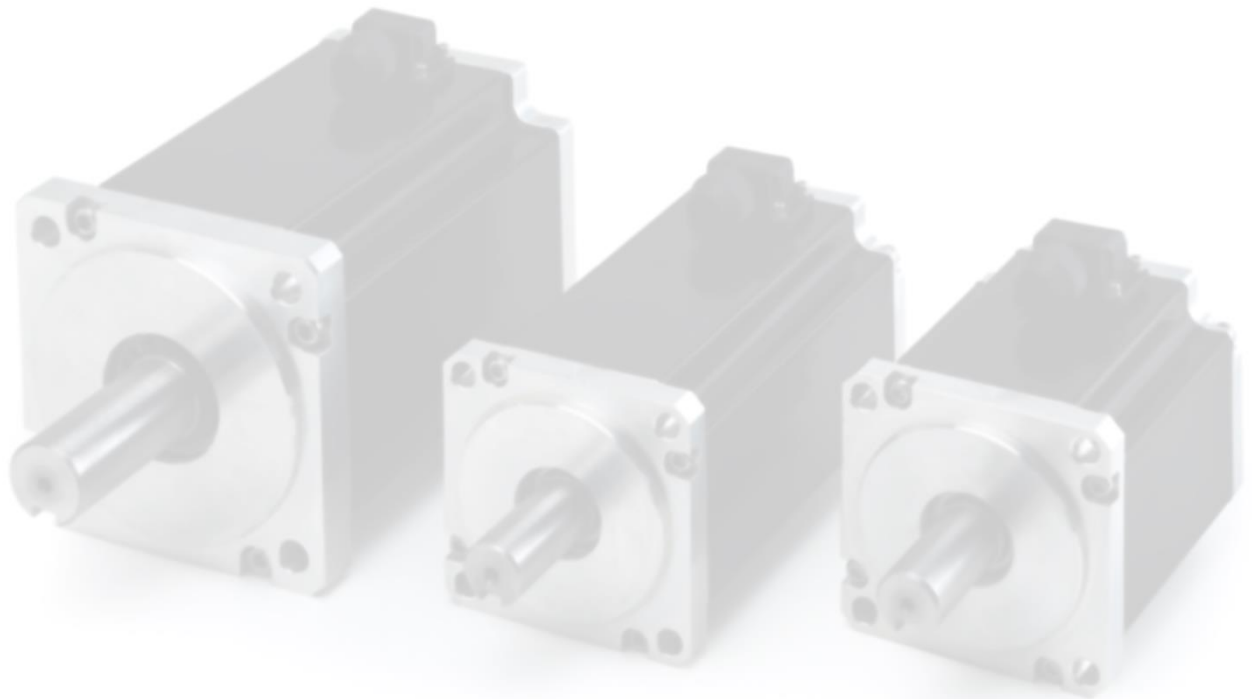
NOTES: PLEASE SEND APPROVAL COPY WHILE ORDERING.  
ALL UNSPECIFIED TOLERANCES WITHIN  $\pm 3\%$  LIMIT

# Low Voltage Motors

Typical Supply Voltage	48Vdc		
Rated Power (W)	200	400	750
Rated Torque (Nm)	0.64	1.27	2.39
Peak Torque (Nm)	1.92	3.82	6.9
Rated Speed (rpm)	3000		
Maximum speed (rpm)	4000		
Rated Current (A)	4.5	9.6	16.6
Peak Current (A)	13.5	28.8	49.5
Rotor inertia ( $10^{-4}$ kg-m <sup>2</sup> ) (w/o brake)	0.221	0.426	1.108
Mechanical constant (ms)	1.4147	1.204	1.193
Torque constant $K_T$ (Nm/A)	0.1391	0.1322	0.1439
Voltage constant $K_E$ (V/Krpm)	8	7.5	8
Armature resistance (ohm)	0.68	0.267	0.102
Armature Inductance (mH)	3.33	1.2	0.75
Electric constant (ms)	4.897	4.49	7.35
Insulation class	F		
Insulation resistance	>100Mohm, 500Vdc		
Insulation strength	1.8kVac, 1Sec		
Weight (kg) (w/o brake)	1.2	1.6	3
Weight (kg) (with brake)	1.5	2	3.8
Operating temperature (°C)	0 to 40 °C		
Storage temperature (°C)	-10 to 80 °C		
IP rating	IP65 (Except for shaft opening, when not equipped with oil seal; Except for Connectors, when not equipped with waterproof connectors.)		
Compliance	RoHS		

# High Voltage Motors


Typical Supply Voltage	200Vac		
Rated Power (W)	200	400	750
Rated Torque (Nm)	0.64	1.27	2.39
Peak Torque (Nm)	1.92	3.82	6.9
Rated Speed (rpm)	3000		
Maximum speed (rpm)	4000		
Rated Current (A)	1.6	2.5	4.5
Peak Current (A)	4.8	7.8	14.5
Rotor inertia ( $10^{-4}$ kg-m <sup>2</sup> ) (w/o brake)	0.221	0.426	1.108
Mechanical constant (ms)	1.4147	1.0969	1.193
Torque constant $K_T$ (Nm/A)	0.426	0.508	0.533
Voltage constant $K_E$ (V/Krpm)	29	29	35
Armature resistance (ohm)	8.6	3.7	1.47
Armature Inductance (mH)	25	12.9	8.2
Electric constant (ms)	2.90	3.4864	5.578
Insulation class	F		
Insulation resistance	>100Mohm, 500Vdc		
Insulation strength	1.8kVac, 1Sec		
Weight (kg) (w/o brake)	1.2	1.6	3
Weight (kg) (with brake)	1.5	2	3.8
Operating temperature (°C)	0 to 40 °C		
Storage temperature (°C)	-10 to 80 °C		
IP rating	IP65 (Except for shaft opening, when not equipped with oil seal; Except for Connectors, when not equipped with waterproof connectors.)		
Compliance	RoHS		



**MOVEMATIC**

**On demand design & Manufacturing capability with quick response to the customer, which in turn can help the customer to reduce his time to market that will more than offset the modest price premium.**

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