

**3 Phase Squirrel Cage Induction Motor**

Customer : - BBL Ref No : - Quantity : - Nos  
 Consultant : - Tag Nos : -  
 Project : -

Product Type : Line Operated IE2 Efficiency Flameproof Motor

Output (kW)/Poles	: 0.55 / 4P	Frame Size	: 80
Voltage (V)	: 415 +/- 10 %	Area Classification	: Hazardous Area
Frequency (Hz)	: 50 +/- 5 %	Type of Ex Protection	: Ex 'd'
Duty	: S1 (Continuous)	Gas group / Temp. Class	: IIA, IIB / T6
Altitude (m)	: < 1000	Approving Authority	: PESO
Amb Temp/ Temp Rise	: 45 Deg C / 75 K	Enclosure / Cooling Type	: TEFC / IC411
Insulation Class	: F	Location-Indoor/Outdoor	: Indoor
Temp. Rise Class on DOL	: B	Mounting	: B5
Rated Current (Amps)	: 1.34	Degree of protection	: IP55
Rated Speed (RPM)	: 1420	T Box Position from DE	: TOP
Rated Torque (kgm)	: 0.38	Type of coupling	: Direct
Service Factor (SF)	: 1.00	Type of Bearing (DE/NDE)	: Ball / Ball
SF Current (Amps)	: --	DE / NDE Bearing	: 6204 2Z / 6204 2Z
Efficiency & Power factor	:	Lubrication	: Lithium Soap Base Grease
% Full Load	% Efficiency	Power Factor	Connection / No. of terminals
100%	77.1 IE2	0.74	: Star / 3
75%	77.1	0.64	Cable Size
50%	72.0	0.50	: 1 x 3C x 4 Sqmm
Locked Rotor Current (% Full Load)	: 500%	Main T.Box ET Size	: 1 x M20
Locked Rotor Torque (% Full Load)	: 280%	Weight in kg (Approx)	: 31
Breakdown Torque (% Full Load)	: 300%	Direction of rotation	: Clockwise from DE
L.R. Withstand Time Hot/Cold (sec)	: 30 / 60	Paint Type	: Acid Alkali Proof
Application	: Centrifugal Pump	Paint Shade	: 632
Type of Load Torque	: Variable Torque	Noise level (dBA)	: As per IS12065
Method of starting	: DOL	Vibration level (mm/sec)	: "Normal" as per IS12075
Speed Variation on VFD	: N.A.	Brake Type	: N.A.
Rotor GD <sup>2</sup> (kgm <sup>2</sup> )	: 0.0066	Braking Torque (kgm)	: N.A.
Load RPM	: Customer to specify	Brake release time (ms)	: N.A.
Load GD <sup>2</sup> (kgm <sup>2</sup> )	: Customer to specify	Brake application time (ms)	: N.A. (AC Side interruption)
Starting time (sec)	: 0.5 Load GD2=Motor GD2	Accessories	:
No. of consecutive starts	: 2 Hot / 3 Cold	.....	
Additional data 1	:		
Additional data 2	:		

Applicable Standards : IS/IEC60079-1, IS12615, IS1231, IS2223, IS12065, IS12075

Remarks : ...

**Notes**

- 1) All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.
- 2) Performance values are at rated voltage and rated frequency condition and for DOL starting condition.
- 3) Motor GD2 = Load GD2 assumed wherever not mentioned.
- 4) Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.
- 5) Unused cable entry must be filled with suitably certified stopping plugs.

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