



Customer information packet

EM31120

1.5HP, 3490RPM, 3PH, 60HZ, 56, 3518M, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 208.0 V 4.000 A @ 230.0 V 2.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a

Part detail

Revision	R
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGM761
Layout	35LYB011
Eff. date	07-01-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-28-2014

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.07 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3155LUA									
CAT.NO.	EM31120								
SPEC.	35B011M761G1								
HP	1.5								
VOLTS	230/460								
AMPS	4/2								
RPM	3490								
FRAME	56		HZ	60		PH	3		
SF	1.15		CODE	L	DES	B	CLASS	F	
F.L. AVG. EFF.	84		PF	83					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN		SN						
USABLE AT	50HZ 1.5HP 190/380V 4.6/2.3A							SF1.0	

AC Induction Motor Performance Data

Record # 44884

Typical performance - not guaranteed values

Winding: 35WGM761-R004			Type: 3518M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.26 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		4-2	Breakdown Torque		9.32 LB-FT		
R.P.M.		3490	Pull-up Torque		4.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		6.79 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		17.2 A
Service Factor (S.F.)		1.15	No-load Current		1.05 A		
NEMA Nom. Eff.		84	Power Factor	83	Line-line Res. @ 25°C		12.897 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C	
S.F. Amps				Temp. Rise @ S.F. Load		29°C	
				Locked-rotor Power Factor		64	
				Rotor inertia		0.0493 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	64	76	83	87	90	85
Efficiency	73.6	82.2	84.7	85	84.3	83	84.6
Speed	3574.4	3550.4	3524.4	3496.4	3465.2	3430	3478
Line amperes	1.14	1.35	1.63	1.99	2.41	2.84	2.24

ABB Motors and Mechanical Inc.

WINDING # 35WGM761

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3490 RPM 460 V 3518M

TORQUES (LB-FT): PO=9.32 PU=4.18 LR=6.79 LRA=17.2





