

ABB BALDOR RELIANCE III

Customer information packet

CJEWDM3550

1.5HP, 3450RPM, 3PH, 60HZ, 56J, 3526M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
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 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	4.100 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

Part Detail

Revision	L
Type	AC
Mech. spec.	35E2234
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYE2234
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-02-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.72 IN
Power Factor	84
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.30
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP2179L											
CAT.NO.	CJEWDM3550										
SPEC.	35E2234M774G2										
HP	1.5										
VOLTS	208-230/460										
AMP	4.1-4/2										
RPM	3450										
FRAME	56J		HZ	60				PH	3		
SER.F.	1.30		CODE	P	DES	B		CLASS	F		
NEMA-NOM-EFF	84		PF	84							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC		SN								
BLANK	SFA 5.1-4.8/2.4										

AC Induction Motor Performance Data

Record # 51670

Typical performance - not guaranteed values

Winding: 35WGM774-R070			Type: 3526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.22 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		4.1-4/2	Breakdown Torque		14.2 LB-FT		
R.P.M.		3450	Pull-up Torque		6.33 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.2 LB-FT	
NEMA Design Code		B	KVA Code	P	Starting Current		25.9 A
Service Factor (S.F.)		1.3	No-load Current		0.912 A		
NEMA Nom. Eff.		84	Power Factor	84	Line-line Res. @ 25°C		6.88 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps		5.1-4.8/2.4	Temp. Rise @ S.F. Load		43°C		
			Locked-rotor Power Factor		49.9		
			Rotor inertia		0.0719 LB-FT2		

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	67	78	84	87	89	87
Efficiency	67.2	79.7	83.2	85.1	85.4	85	85.3
Speed	3578	3559	3539	3518	3496	3470	3491
Line amperes	1.04	1.29	1.61	1.96	2.34	2.76	2.42

ABB Motors and Mechanical Inc.

WINDING # 35WGM774

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9





