

ABB BALDOR RELIANCE III

Customer information packet

JMEWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143JM, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143JM
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	1.400 A @ 460.0 V 2.800 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS921
Layout	35LYSS629
Eff. date	01-17-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-09-2019

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.44 IN
Power Factor	82
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1669L									
CAT.NO.	JMEWDM3545T								
SPEC.	35-0000-0480								
HP	1								
VOLTS	230/460								
AMP	2.8/1.4								
RPM	3450								
FRAME	143JM		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	84	PF	82						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6203					
ENCL	TEFC	SN							
BLANK	20:1CT, 20:1VT,1.00SF								

AC Induction Motor Performance Data

Record # 54971

Typical performance - not guaranteed values

Winding: 35WGS921-R022			Type: 3516M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque			1.5 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		2.8/1.4	Breakdown Torque			6.5 LB-FT
R.P.M.		3450	Pull-up Torque			4.8 LB-FT
Hz	60	Phase	Locked-rotor Torque			5.7 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			12.1 A
Service Factor (S.F.)		1.15	No-load Current			0.68 A
NEMA Nom. Eff.	84	Power Factor	Line-line Res. @ 25°C			15.2 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			33°C
S.F. Amps			Temp. Rise @ S.F. Load			38°C
			Locked-rotor Power Factor			56.1
			Rotor inertia			0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	65	77	83	87	87	85
Efficiency	70.4	80.6	84	84.6	84.7	83.7	84.7
Speed	3567	3539	3510	3479	3446	3410	3459
Line amperes	0.75	0.9	1.09	1.33	1.56	1.88	1.47

ABB Motors and Mechanical Inc.

WINDING # 35WGS921

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1





