

ABB BALDOR RELIANCE III

Customer information packet

JMFSWDM3555T-E

2HP, 3450RPM, 3PH, 60HZ, 145JM, 3532M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145JM
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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	UR CSA
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	2.500 A @ 460.0 V 5.000 A @ 230.0 V 5.400 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	M
Type	AC
Mech. spec.	35E4781
Base	
Status	PRD/A
Elec. spec.	35WGR129
Layout	35LYE4781
Eff. date	03-17-2026
CD Diagram	CD0005
Poles	02
Leads	9#18 15" lead length,0#0 dbl dip & bake,0#0 phase insulaY
Proprietary	False
Created date	11-07-2017

High Voltage Full Load Amps	2.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ 0 AWG 9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.03 IN
Power Factor	85
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP4427AAA01													
CAT #	JMFSWDM3555T-E					WT	50	LBS					
SPEC	35E4781R129G1					ENCL	TEFC						
SER #						CC	010A	IP	69				
HP	2	MAG CUR				2.2/1.1							
VOLTS	230/460					NEMA NOM. EFF				86.5			
AMPS	5/2.5					PF	85						
RATING	40C AMB-CONT												
RPM	3450					MAX RPM		5400					
FRAME	145JM	HZ	60	CODE		N	CLASS		H				
SER.F.	1.15	SF AMP	5.6/2.8				PH	3	DES	B			
DE	6206		ODE		6205								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.09	CT	15	TO	60	4:1						
ID LOGO	SL HZ	2.5	VT	3	TO	60	20:1						
							QR						
YR													

AC Induction Motor Performance Data

Record # 57369

Typical performance - not guaranteed values

Winding: 35WGR129-R013			Type: 3532M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2	Full Load Torque		2.99 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5/2.5	Breakdown Torque		15.9 LB-FT		
R.P.M.		3450	Pull-up Torque		9.04 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		13.8 LB-FT	
NEMA Design Code		B	KVA Code	N	Starting Current		31 A
Service Factor (S.F.)		1.15		No-load Current		1.13 A	
NEMA Nom. Eff.		86.5	Power Factor	85	Line-line Res. @ 25°C		5.59 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C	
S.F. Amps				Temp. Rise @ S.F. Load		59°C	
				Locked-rotor Power Factor		47.5	
				Rotor inertia		0.0885 LB-FT2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	80	86	89	91	88
Efficiency	75.8	84.9	86.5	87.1	86.6	85.7	86.8
Speed	3574	3549	3525	3500	3471	3441	3483
Line amperes	1.27	1.62	2.03	2.5	3.04	3.6	2.82

ABB Motors and Mechanical Inc.

WINDING # 35WGR129

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=15.9 PU=9.04 LR=13.8 LRA=31





