

ABB BALDOR RELIANCE III

Customer information packet

VFSWDM3555T-E

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.400 A @ 208.0 V 5.000 A @ 230.0 V 2.500 A @ 460.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a

Part Detail

Revision	N
Type	AC
Mech. spec.	35E4709
Base	
Status	PRD/A
Elec. spec.	35WGR129
Layout	35LYE4709
Eff. date	09-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#18,0#,0#,0# Y
Proprietary	False
Created date	07-11-2017

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 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	14.90 IN
Power Factor	85
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
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 #	VFSWDM3555T-E					WT	50		LBS			
SPEC	35E4709R129G1					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	145TC	HZ		60		CODE	N	CLASS		H		
SER.F.	1.15	SF AMP		5.6/2.8			PH	3	DES	B		
DE	6205		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	
NEMA Design Code		B	KVA Code		N	
Service Factor (S.F.)		1.15	Starting Current		31 A	
NEMA Nom. Eff.		86.5	Power Factor		85	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

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





