

ABB BALDOR RELIANCE III

Customer information packet

VFSWDNM3555T-E

2HP, 3480RPM, 3PH, 60HZ, 145TC, 3546M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	UR CSA
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	2.400 A @ 460.0 V 4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	2.4 a

Part Detail

Revision	N
Type	AC
Mech. spec.	35E4717
Base	
Status	PRD/A
Elec. spec.	35WGL288
Layout	35LYE4717
Eff. date	08-14-2023
CD Diagram	CD0005
Poles	02
Leads	9#18,0#,0#,0# Y
Proprietary	False
Created date	07-10-2017

Insulation Class	H
Inverter Code	Not Inverter
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	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.09 IN
Power Factor	89
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3480 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 #	VFSWDNM3555T-E					WT	63		LBS				
SPEC	35E4717L288G1					ENCL	TENV						
SER #						CC	010A		IP	69			
HP	2		MAG CUR			1.7/.85							
VOLTS	230/460					NEMA NOM. EFF					88.5		
AMPS	4.8/2.4					PF	89						
RATING	40C AMB-CONT												
RPM	3480					MAX RPM			5400				
FRAME	145TC		HZ	60		CODE	N		CLASS	H			
SER.F.	1.15		SF AMP			PH			3		DES	B	
DE	6205		ODE		6205								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60		TO	90			
ID LOGO	WK2	0.127		CT	15		TO	60		4:1			
ID LOGO	SL HZ	2		VT	3		TO	60		20:1			

AC Induction Motor Performance Data

Record # 51581

Typical performance - not guaranteed values

Winding: 35WGL288-R001			Type: 3546M		Enclosure: TENV			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2		Full Load Torque		3.04 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		4.8/2.4		Breakdown Torque		17.3 LB-FT		
R.P.M.		3480		Pull-up Torque		6.76 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.8 LB-FT		
NEMA Design Code		B	KVA Code	N		Starting Current	29.7 A	
Service Factor (S.F.)		1.15		No-load Current		0.876 A		
NEMA Nom. Eff.		88.5	Power Factor	89		Line-line Res. @ 25°C		5.3448 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		104°C
S.F. Amps						Temp. Rise @ S.F. Load		128°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	85	89	91	93	90
Efficiency	84.9	89.3	89.9	89.2	88.1	86.5	88.5
Speed	3568.9	3541.4	3511.5	3479.4	3445.1	3406.6	3459
Line amperes	1.06	1.41	1.86	2.37	2.92	3.52	2.7

ABB Motors and Mechanical Inc.

WINDING # 35WGL288

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3480 RPM 460 V 3546M

TORQUES (LB-FT): PO=17.3 PU=6.76 LR=14.8 LRA=29.7





