

ABB BALDOR RELIANCE III

Customer information packet

FSWDM3551TP-E1

3HP, 1700RPM, 3PH, 60HZ, 145T, 3546M, TEFC, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE C UR US
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	4.300 A @ 460.0 V 8.600 A @ 230.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a
Insulation Class	H

Part Detail

Revision	-
Type	AC
Mech. spec.	35E4931
Base	
Status	PRD/A
Elec. spec.	35WGF546
Layout	35LYE4931
Eff. date	05-26-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	05-26-2026

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.28 IN
Power Factor	78
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1700 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

NP4427ALY01											
CAT #	FSWDM3551TP-E1				WT	63		LBS			
SPEC	35E4931F546G1				ENCL	TEFC					
SER #					CC			IP	69		
HP	3				NEMA NOM. EFF						81.5
VOLTS	230/460										
AMPS	8.6/4.3				PF		78				
RATING	40C AMB-CONT										
RPM	1700										
FRAME	145T	HZ		60	CODE	K	CLASS		H		
SER.F.	1.00	SF AMP				PH	3	DES	D		
DE	6205		ODE		6205		YR				
LUBRICATION	POLYREX EM										
QR											

AC Induction Motor Performance Data

Record # 116646

Typical performance - not guaranteed values

Winding: 35WGF546-R001			Type: 3546M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		9.204 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.6/4.3	Breakdown Torque		42.2 LB-FT		
R.P.M.		1700	Pull-up Torque		27.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		39.3 LB-FT	
NEMA Design Code		D	KVA Code		K		
Service Factor (S.F.)		1	No-load Current		2.23 A		
NEMA Nom. Eff.		81.5	Power Factor		78		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		111°C
					Locked-rotor Power Factor		62.3
					Rotor inertia		0.332 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	38	59	71	78	82	85
Efficiency	77.5	84.1	84.9	83.9	81.8	78.9
Speed	1778	1756	1732	1704.4	1673	1636.2
Line amperes	2.4	2.85	3.49	4.28	5.21	6.28

ABB Motors and Mechanical Inc.

WINDING # 35WGF546

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1700 RPM 460 V 3546M

TORQUES (LB-FT) : PO=42.2 PU=27.1 LR=39.3 LRA=32





