

ABB BALDOR RELIANCE III

Customer information packet

FSWDM3615T-E

5HP, 1750RPM, 3PH, 60HZ, 184T, 3646M, TEFC, F1

Part Detail

Revision	J
Type	AC
Mech. spec.	36R625
Base	
Status	PRD/A
Elec. spec.	36WGS953
Layout	36LYR625
Eff. date	10-06-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-26-2018

Nameplate

NP4427AAA01													
CAT #	FSWDM3615T-E					WT	101	LBS					
SPEC	36R625S953G1					ENCL	TEFC						
SER #						CC	010A	IP	69				
HP	5					MAG CUR	5.8/2.9						
VOLTS	230/460					NEMA NOM. EFF				89.5			
AMPS	13/6.5					PF		81					
RATING	40C AMB-CONT												
RPM	1750					MAX RPM		2700					
FRAME	184T	HZ	60			CODE	J	CLASS	H				
SER.F.	1.15	SF AMP	14.8/7.4				PH	3	DES	B			
DE	6206		ODE		6206								
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.428	CT	15	TO	60	4:1						
ID LOGO	SL HZ	1.7	VT	6	TO	60	10:1						
							QR						
YR													

AC Induction Motor Performance Data

Record # 57384

Typical performance - not guaranteed values

Winding: 36WGS953-R006			Type: 3646M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		15.03 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		13/6.5	Breakdown Torque		57.4 LB-FT	
R.P.M.		1750	Pull-up Torque		28.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		32.3 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		47.9 A	
Service Factor (S.F.)		1.15	No-load Current		2.91 A	
NEMA Nom. Eff.		89.5 Power Factor	Line-line Res. @ 25°C		2.34 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		75°C	
S.F. Amps			Temp. Rise @ S.F. Load		91°C	
			Locked-rotor Power Factor		39	
			Rotor inertia		0.428 lb-ft²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	90	83	84	86
Efficiency	86.7	90.5	90.8	89.3	88.4	86.6	88.8
Speed	1788	1776	1763	1748	1732	1714	1738
Line amperes	3.27	4.1	5.2	6.53	8.02	9.69	7.42

ABB Motors and Mechanical Inc.

WINDING # 36WGS953

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 3646M

TORQUES (LB-FT) : PO=57.4 PU=28.9 LR=32.3 LRA=47.9





