

ABB BALDOR RELIANCE III

Customer information packet

EFM2539T-G

40HP, 1770RPM, 3PH, 60HZ, 324T, 4064M, OPSB, F2

Part Detail

Revision	L
Type	AC
Mech. spec.	40E319
Base	
Status	PRD/A
Elec. spec.	40WGX166
Layout	40LYE319
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	True
Created date	10-21-2014

Nameplate

NP3554LUA												
CAT.NO.	EFM2539T-G				P/N			ENCL			OPSB	
SPEC.	40E319X166G1		CC	010A		FRAME		324T		SER.NO.		
HP	40			CLASS		H	HZ		60			
RPM	1770			PH	3		DES		A			
VOLTS	230/460				CODE		H		ODE BRG	6309	DE BRG	6312
AMPS	98/49											
RATING	40C AMB-CONT			NEMA-NOM-EFF				94.1		GREASE	POLYREX EM	
PF	82		SER.F.	1.15			CT30-60(2:1) VT3-60(20:1)					
USABLE AT	50HZ 40HP 190/380V 114/57A					SF1.0						
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 35574

Typical performance - not guaranteed values

Winding: 40WGX166-R003				Type: 4064M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		119 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		98/49		Breakdown Torque		427 LB-FT	
R.P.M.		1770		Pull-up Torque		187 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		246 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		330 A	
Service Factor (S.F.)		1.15		No-load Current		21.1 A	
NEMA Nom. Eff.		94.1	Power Factor	Line-line Res. @ 25°C		0.16236 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps				Temp. Rise @ S.F. Load		51°C	
				Locked-rotor Power Factor		32	
				Rotor inertia		5.09 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	82	85	85	84
Efficiency	91.1	94	94.5	94.2	93.6	92.8	93.8
Speed	1792.4	1785	1777.8	1770.2	1762.1	1752.8	1765
Line amperes	24.1	30.7	39.2	48.7	59.3	71.3	55.1

ABB Motors and Mechanical Inc.

WINDING # 40WGX166

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1770 RPM 460 V 4064M

TORQUES (LB-FT): PO=427 PU=187 LR=246 LRA=330

