

ABB BALDOR RELIANCE III

Customer information packet

M3714T

10HP, 1770RPM, 3PH, 60HZ, 215T, 3740M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	13.500 A @ 460.0 V 27.000 A @ 230.0 V 28.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	13.5 a

Part Detail

Revision	E
Type	AC
Mech. spec.	37G813
Base	
Status	NLA/A
Elec. spec.	37WGS275
Layout	37LYG813
Eff. date	01-13-2011
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-18-2007

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.01 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1256L									
CAT.NO.									
SPEC.	37G813S275H1								
HP	10								
VOLTS	208-230/460								
AMP	28-27/13.5								
RPM	1770								
FRAME	215T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CLASS	F		
NEMA-NOM-EFF	89.5	PF	77						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	TEFC	SN							

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 24713

Typical performance - not guaranteed values

Winding: 37WGS275-R001			Type: 3740M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.5 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		28-27/13.5	Breakdown Torque		121 LB-FT		
R.P.M.		1770	Pull-up Torque		53.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		68.8 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		107 A
Service Factor (S.F.)		1.15	No-load Current		7.31 A		
NEMA Nom. Eff.		89.5	Power Factor	77	Line-line Res. @ 25°C		1.16 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps					Temp. Rise @ S.F. Load		94°C
					Locked-rotor Power Factor		41
					Rotor inertia		0.984 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	70	77	81	83	79
Efficiency	81.4	88.2	89.6	89.7	89	88	89.3
Speed	1793	1785	1777	1769	1760	1751	1764
Line amperes	7.82	9.21	11	13.5	16.2	19	15.1

ABB Motors and Mechanical Inc.

WINDING # 37WGS275

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

TORQUES (LB-FT): PO=121 PU=53.6 LR=68.8 LRA=107





