

ABB BALDOR RELIANCE III

Customer information packet

EM3714T-58

10HP, 1460RPM, 3PH, 50HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS CURUSEEV IE3 NEMA PREMIUM (OLD LOGO) UKCA WEEE
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	14.300 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	T
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGR070
Layout	37LYA001
Eff. date	11-05-2025
CD Diagram	CD0382
Poles	04
Leads	6#14
Proprietary	False
Created date	12-30-2014

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.51 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1460 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2716L									
CAT NO	EM3714T-58								
SPEC.	37A001R070G1								
HP	10/7.5KW						PH	3	
VOLTS	400								
AMP	14.3								
R.P.M. (1/MIN)	1460								
FRAME	215T		HZ		50		I.P.		44
SER.F.	1.15	CODE	J	DES	B	CL		F	
NOM.EFF.	90.4		% (100%)						
PF	84								
RATING	40C AMB-S1 CONT				CC				
DE BRG	6307		ODE		6206				
ENCL	TEFC	SN							
BLANK	IC411 75KG								
	IE3-91.6(75%)92.0(50%)								

AC Induction Motor Performance Data

Record # 48454

Typical performance - not guaranteed values

Winding: 37WGR070-R002			Type: 3752M		Enclosure: TEFC		
Nameplate Data			400 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		36.1 LB-FT		
Volts		400	Start Configuration		direct on line		
Full Load Amps		14.3	Breakdown Torque		128 LB-FT		
R.P.M.		1460	Pull-up Torque		42.5 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		61 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		108 A
Service Factor (S.F.)		1.15	No-load Current		5.38 A		
NEMA Nom. Eff.		90.4	Power Factor	84	Line-line Res. @ 25°C		1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		94°C
S.F. Amps					Temp. Rise @ S.F. Load		115°C
					Locked-rotor Power Factor		39.6
					Rotor inertia		1.28 lb-ft²

Load Characteristics 400 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	71	80	84	85	85	85
Efficiency	89.5	92	91.6	90.4	88.8	86.4	89.4
Speed	1492	1483	1473	1461	1449	1433	1454
Line amperes	6.3	8.33	11.1	14.3	17.7	22.1	16.3

ABB Motors and Mechanical Inc.

WINDING # 37WGR070

Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1460 RPM 400 V 3752M

TORQUES (LB-FT): PO=128 PU=42.5 LR=61 LRA=108





