

ABB BALDOR RELIANCE III

Customer information packet

VHECP3771T

10HP, 3500RPM, 3PH, 60HZ, 215HP, 0742M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215HP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	22.000 A @ 230.0 V 24.500 A @ 208.0 V 11.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	07K215
Base	
Status	PRD/A
Elec. spec.	07WGY012
Layout	07LYK215
Eff. date	07-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	09-11-2012

Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	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	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.51 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP1260											
CAT.NO.	VHECP3771T										
SPEC.	07K215Y012G1										
HP	10										
VOLTS	230/460										
AMP	22/11										
RPM	3500										
FRAME	215HP		HZ	60			PH		3		
SER.F.	1.15		CODE	H	DES	B		CL		F	
NEMA-NOM-EFF	92.4		PF	90							
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6206							
ENCL	TEFC		SN								

AC Induction Motor Performance Data

Record # 30058

Typical performance - not guaranteed values

Winding: 07WGY012-R001		Type: 0742M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10	Full Load Torque	14.9 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	22.4/11.2	Breakdown Torque	70.8 LB-FT
R.P.M.	3500	Pull-up Torque	24.2 LB-FT
Hz	60 Phase	Locked-rotor Torque	32.6 LB-FT
NEMA Design Code	B KVA Code	Starting Current	88.5 A
Service Factor (S.F.)	1.15	No-load Current	3.61 A
NEMA Nom. Eff.	92.4 Power Factor	Line-line Res. @ 25°C	0.776 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps		Temp. Rise @ S.F. Load	51°C
		Rotor inertia	0.383 lb-ft ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	79	88	90	92	91	91
Efficiency	90.1	93	93.2	92.5	91.4	90	91.8
Speed	3578.4	3554.5	3528.7	3503.4	3473.7	3440.8	3486
Line amperes	4.43	6.32	8.64	11.1	13.9	17.1	12.8

ABB Motors and Mechanical Inc.

WINDING # 07WGY012

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 0742M

TORQUES (LB-FT): PO=70.8 PU=24.2 LR=32.6 LRA=88.5





