

ABB BALDOR RELIANCE III

Customer information packet

VHECP3774T

10HP, 1760RPM, 3PH, 60HZ, 215HP, 0748M, TEFC

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	1800 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	25.000 A @ 230.0 V 26.300 A @ 208.0 V 12.500 A @ 460.0 V
Design Code	A
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	AB
Type	AC
Mech. spec.	07K215
Base	
Status	PRD/A
Elec. spec.	07WGX776
Layout	07LYK215
Eff. date	07-25-2024
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 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	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.51 IN
Power Factor	82
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	1760 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.	VHECP3774T										
SPEC.	07K215X776										
HP	10										
VOLTS	230/460										
AMP	25/12.5										
RPM	1760										
FRAME	215HP		HZ	60			PH		3		
SER.F.	1.15		CODE	H		DES	A		CL		F
NEMA-NOM-EFF	92.4		PF	82							
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6206							
ENCL	TEFC		SN								

AC Induction Motor Performance Data

Record # 25097

Typical performance - not guaranteed values

Winding: 07WGX776-R016			Type: 0748M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		25/12.5	Breakdown Torque		87 LB-FT		
R.P.M.		1760	Pull-up Torque		51.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		57.5 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	88.5 A
Service Factor (S.F.)		1.15	No-load Current		5.12 A		
NEMA Nom. Eff.		92.4	Power Factor	82	Line-line Res. @ 25°C		0.973 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps			Temp. Rise @ S.F. Load		76°C		
			Locked-rotor Power Factor		35		
			Rotor inertia		1.18 LB-FT2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	78	82	84	85	83
Efficiency	90	92.9	93.1	92.5	91.4	90.1	91.8
Speed	1790	1781	1771	1762	1750	1739	1755
Line amperes	5.84	7.52	9.75	12.3	15.2	18.3	14

ABB Motors and Mechanical Inc.

WINDING # 07WGX776

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 460 V 0748M

TORQUES (LB-FT): PO=87 PU=51.9 LR=57.5 LRA=88.5





