

ABB BALDOR RELIANCE III

Customer information packet

VECP3764T

3HP, 1165RPM, 3PH, 60HZ, 213TC, 0738M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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
Constant Torque Speed Range	1.8
Current @ Voltage	9.000 A @ 230.0 V 4.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	AB
Type	AC
Mech. spec.	07K370
Base	
Status	PRD/A
Elec. spec.	07WGX822
Layout	07LYK370
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	08-02-2006

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	21.36 IN
Power Factor	70
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	Shaft Slinger
Speed	1165 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

NP3257									
CAT.NO.	VECP3764T								
SPEC.	07K370X822G1								
HP	3 TE								
VOLTS	230/460								
AMP	9/4.5								
RPM	1165								
FRAME	213TC	HZ		60	PH		3		
SER.F.	1.15	CODE	K	DES	B	CL	F		
RATING	40C AMB-CONT								
SN									
DE	6307	ODE		6307					
NEMA-NOM-EFF	90.2	PF		70					
G.MIN.EFF	88.5	CC	010A						
T. CODE	T3C	T=	160						

NP3260			
SPEC.	07K370X822G1		
D.E. BRG.	35BC03XP30X		
O.D.E. BRG.	35BC03XP30X		
GREASE	POLYREX EM		
RPM MAX	1800	MAX. KVAR	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	1.8	CT HZ TO	60
VT HZ FROM	0-	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47059

Typical performance - not guaranteed values

Winding: 07WGX822-R032			Type: 0738M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		3	Full Load Torque		13.46 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		9/4.5	Breakdown Torque		46.79 LB-FT
R.P.M.		1165	Pull-up Torque		30.52 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	34.44 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	32 A
Service Factor (S.F.)		1.15	No-load Current		2.35 A
NEMA Nom. Eff.	90.2	Power Factor	70	Line-line Res. @ 25°C	2.62 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		31°C
S.F. Amps			Temp. Rise @ S.F. Load		37°C
			Locked-rotor Power Factor		22.7
			Rotor inertia		0.945 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	62	69	73	75	72
Efficiency	83.1	88.7	90.7	90.3	89.4	87.7	89.6
Speed	1191	1184	1176	1170	1160	1147	1162
Line amperes	2.62	3.11	3.75	4.51	5.38	6.39	5

ABB Motors and Mechanical Inc.

WINDING # 07WGX822

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1165 RPM 460 V 0738M

TORQUES (LB-FT) : PO=46.79 PU=30.52 LR=34.44 LRA=32





