

ABB BALDOR RELIANCE III

Customer information packet

CECP3769T

7.5HP, 3510RPM, 3PH, 60HZ, 213TC, 0732M, TEFC

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	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	8.600 A @ 460.0 V 17.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	S
Type	AC
Mech. spec.	07K373
Base	
Status	PRD/A
Elec. spec.	07WGY010
Layout	07LYK373
Eff. date	09-14-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-28-2011

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.24 IN
Power Factor	88
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	3510 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.	CECP3769T								
SPEC.	07K373Y010G1								
HP	7.5 TE								
VOLTS	230/460								
AMP	17.2/8.6								
RPM	3510								
FRAME	213TC	HZ		60		PH		3	
SER.F.	1.15	CODE	H	DES	B	CL		F	
RATING	40C AMB-CONT								
SN									
DE	6307	ODE		6307					
NEMA-NOM-EFF	91	PF		88					
G.MIN.EFF	89.5	CC	010A						
T. CODE	T3C	T=	160						

NP3260			
SPEC.	07K373Y010G1		
D.E. BRG.	35BC03XP30X		
O.D.E. BRG.	35BC03XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47061

Typical performance - not guaranteed values

Winding: 07WGY010-R020			Type: 0732M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		11.1 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		17.2/8.6	Breakdown Torque		45.1 LB-FT		
R.P.M.		3510	Pull-up Torque		15 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		21.3 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		61.4 A
Service Factor (S.F.)		1.15		No-load Current		2.75 A	
NEMA Nom. Eff.		91	Power Factor	88	Line-line Res. @ 25°C		1.14 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps				Temp. Rise @ S.F. Load		50°C	
				Locked-rotor Power Factor		31.7	
				Rotor inertia		0.292 LB-FT2	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	85	89	89	90	89
Efficiency	86.8	91.2	92.2	91.8	90.9	89.8	91.3
Speed	3579	3558	3536	3510	3484	3454	3494
Line amperes	3.42	4.86	6.63	8.52	10.7	13	9.84

ABB Motors and Mechanical Inc.

WINDING # 07WGY010

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3510 RPM 460 V 0732M

TORQUES (LB-FT): PO=45.1 PU=15 LR=21.3 LRA=61.4



