

ABB BALDOR RELIANCE III

Customer information packet

ECTM3768T-G-AO

5 AIR OVERHP, 1160RPM, 3PH, 60HZ, 215T, 0746M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	215T
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	5.000 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
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	7.400 A @ 460.0 V 15.300 A @ 208.0 V 14.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	C
Type	AC
Mech. spec.	07D709
Base	
Status	PRD/A
Elec. spec.	07WGY763
Layout	07LYD709
Eff. date	09-08-2023
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-05-2022

Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.62 IN
Power Factor	71
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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

NP2178									
CAT.NO.	ECTM3768T-G-AO								
SPEC.	07D709Y763G1								
HP	5 AIR OVER								
VOLTS	230/460								
AMP	14.8/7.4								
RPM	1160								
FRAME	215T	HZ		60		PH		3	
SER.F.	1.15	CODE		K	DES		A	CL	F
NEMA-NOM-EFF	89.5	PF		71					
RATING	40C AMB-CONT								
CC									
DE	6307	ODE			6206				
ENCL	TEAO	SN							
	INV DUT 20:1 VT								

AC Induction Motor Performance Data

Record # 92600

Typical performance - not guaranteed values

Winding: 07WGY763-R022			Type: 0746M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5 AIR OVER	Full Load Torque		22.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.8/7.4	Breakdown Torque		81.3 LB-FT		
R.P.M.		1160	Pull-up Torque		49.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		59.9 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		54.8 A
Service Factor (S.F.)		1.15		No-load Current		4.03 A	
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		1.64 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		16.6/8.3		Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		22.2	
				Rotor inertia		1.14 lb-ft²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	63	70	74	76	72
Efficiency	84.9	89.7	90.6	90.4	89.2	87.7	89.7
Speed	1190	1181	1174	1164	1153	1141	1157
Line amperes	4.32	5.06	6.12	7.48	8.92	10.5	8.34

ABB Motors and Mechanical Inc.

WINDING # 07WGY763

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

TORQUES (LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8





