

ABB BALDOR RELIANCE III

Customer information packet

07K591X776G1

10 AIR OVERHP, 1760RPM, 3PH, 60HZ, 215TZ, 074

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	215TZ
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	Rigid
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	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	07K591
Base	
Status	PRD/A
Elec. spec.	07WGX776
Layout	07LYK591
Eff. date	10-12-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2008

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard 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	16.88 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	No Key Or Flat
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	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

NP2116L											
CAT.NO.											
SPEC.	07K591X776G1										
HP	10 AIR OVER										
VOLTS	230/460										
AMP	25/12.5										
RPM	1760										
FRAME	215TZ			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											
DE	6307		ODE	6206							
ENCL	TEAO		SN								

Parts List

Part number	Description	Quantity
SA168372	SA 07K591X776G1	1.000 ea
RA156675	RA 07K591X776G1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
37EP1100C16	FR EP TENV 37M 06BRG W/SPL BRG DEPTH (LO	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
37EP1101C12	PU EP 307 BRG ENCL W/O GRSR FOR AEGIS SG	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.036 ga
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2116L	ALUM SUPER-E UL CC	1.000 ea
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 ea
10XL3807A28	3/8-7 X 1 3/4" LAG SCREW	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 35555

Typical performance - not guaranteed values

Winding: 07WGX776-R024			Type: 0748M		Enclosure: TEAO			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10 AIR OVER		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		0.958 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C		
S.F. Amps				Temp. Rise @ S.F. Load		74°C		
				Locked-rotor Power Factor		35		
				Rotor inertia		1.18 LB-FT ²		

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	89.7	92.9	93	92.4	91.2	90.2	91.7
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





