

ABB BALDOR RELIANCE III

Customer information packet

UCME7510

7.5-10 AIR OVERHP, 3450RPM, 3PH, 60HZ, 184TZ

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	184TZ
Frame Material	Steel
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 7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA 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	23.500 A @ 208.0 V 23.000 A @ 230.0 V 11.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	36Q213
Base	
Status	PRD/A
Elec. spec.	36WGW514
Layout	36LYQ213
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#16 30" long Y
Proprietary	False
Created date	03-06-2014

Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.88 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L									
CAT.NO.	UCME7510								
SPEC.	36Q213W514G2								
HP	7.5-10 AIR OVER								
VOLTS	230/460								
AMP	23/11.5								
RPM	3450								
FRAME	184TZ		HZ	60		PH		3	
SER.F.	1.00		CODE	G	DES	B		CL	F
NEMA-NOM-EFF	86.5		PF	94					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEAO		SN						

NP3114L									
CAT.NO.	UCME7510								
SPEC.	36Q213W514G2								
HP	7.5-10 AIR OVER								
VOLTS	230/460								
AMP	23/11.5								
RPM	3450								
FRAME	184TZ	HZ	60		PH	3			
SER.F.	1.00	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	86.5	PF	94						
RATING	40C AMB-CONT								
CC		USABLE AT 208V							N/A
DE	6206	ODE	6205						
ENCL	TEAO	SN							

Parts List

Part number	Description	Quantity
SA277610	SA 36Q213W514G2	1.000 ea
RA264160	RA 36Q213W514G2	1.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
36GS5000	GASKET CONDUIT ADAPTOR	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
36EP3104A46	FREP TENV 36L/M 205 BRG NO GRSR, W/GND	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE3100B94	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
10XN2520A20	1/4-20X 1 1/4 HEX HD X	2.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW2501E18	KEY, 1/4 SQ X 2.000	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.010 qt
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFASST SG, 787.105, TAN	0.022 ga
LD5000A642	LEAD ASSY, ML1400DF14 W/#10 RING 36"	1.000 ea
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP3114L	ALUM FARM DUTY NO LOGO'S CC	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301FD	C FACE KIT FARM DUTY 182-4TC ENCL, 6206	P1
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data

Record # 20860

Typical performance - not guaranteed values

Winding: 36GW514-R002			Type: 3640M		Enclosure: TEAO		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5-10 AIR OVER		Full Load Torque		15 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		23/11.5		Breakdown Torque		68 LB-FT	
R.P.M.		3450		Pull-up Torque		51 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		56 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		100 A
Service Factor (S.F.)		1		No-load Current		2.7 A	
NEMA Nom. Eff.		86.5	Power Factor	94	Line-line Res. @ 25°C		1.32 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		72°C	

Load Characteristics 460 V, 60 Hz, 9.8 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	76	89	93	95	95	94
Efficiency	85	88	88	87	85	83
Speed	3557	3518	3478	3434	3389	3340
Line amperes	4.1	6.5	9	11.6	14.4	17.6

ABB Motors and Mechanical Inc.

WINDING # 36WG514

Typical performance - not guaranteed values.

9.8 HP 3 PH 60 HZ 3450 RPM 460 V 3640M

TORQUES (LB-FT): PO=68 PU=51 LR=56 LRA=100





