ABB BALDOR RELIANCE

Customer information packet

ECS101M0H15FC4

15HP, 1800RPM, 3PH, 60HZ, 215TC, 3760B, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	WEEE
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	6
Current @ Voltage	17.400 A @ 460.0 V
	34.800 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	17.4 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0018
Layout	37LYQ488
Eff. date	03-09-2026
CD Diagram	CD0005A25
Poles	04
Leads	9#12
Proprietary	False
Created date	10-07-2020

IP Rating	NONE
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3760B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.69 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.50
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 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

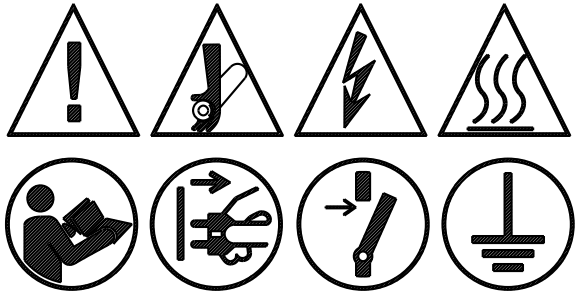
BALDOR·RELIANCE

EC-Titanium™

CAT. NO.	ECS101M0H15FC4						
SPEC.	37-0000-0297				YR	***	
FRAME	215TC		ENCL.	TEFC	IP	54	
HP	15	RATING	40C AMB-CONT				
NOM. EFF.	95.6	PF	97	SF	1.5		
VOLTS	230/460		FLA	35.49/17.75			
RPM	1800	RPM MAX	3000				
HZ	60	PH.	3	CLASS	F		
BEMF (V)	117/234		Rs (Ω)	0.12/0.50			
Ld (mH)	3.39/13.46		Lq (mH)	10.59/42.17			
INV TYP	VPWM	CHP	60 TO 100 HZ				
	CT	6 TO 60 HZ	VT	1 TO 100 HZ			
MATCHED INV	ACS380-04XX-[N/A]/25A0-4						
BEARING	DE	6307	ODE	6206			
SERIAL#	***						

ELECTRIC MOTOR FOR INDUSTRIAL USE

FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



PERMANENT MAGNET MOTOR. WHEN SHAFT IS ROTATED, VOLTAGE WILL BE GENERATED AT THE MOTOR TERMINALS.
MOTEUR Á AIMANT PERMANENT. LORSQUE L'ARBRE TOURNE, UNE TENSION SERA GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED

c UL us LISTED
E46145

ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

Volts	460	Max RPM	3000	Conn Diag.	CD0005	Leads	9
Amps	17.4	Max Amps		Cs Diagram	CS0576	BEMF	112/225
HP	15	VFD#	ACH580-01-023A			LD	3.4/13.5
RPM	1800	S.F.	1.50			LQ	10.6/42.2
Phase/Hz	3/60	Rating	40C AMB-			Rs	0.4926 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1620	90%	43.8	100%	13.5	94.9	4.86%	551
P2	900	50%	43.8	100%	7.5	93.2	3.64%	412
P3	450	25%	43.8	100%	3.7	89.5	2.91%	329
P4	1620	90%	21.9	50%	6.7	94.7	2.49%	282
P5	900	50%	21.9	50%	3.7	93.8	1.64%	185
P6	900	50%	11.0	25%	1.9	93.0	0.93%	106
P7	450	25%	10.9	25%	0.9	91.2	0.60%	68

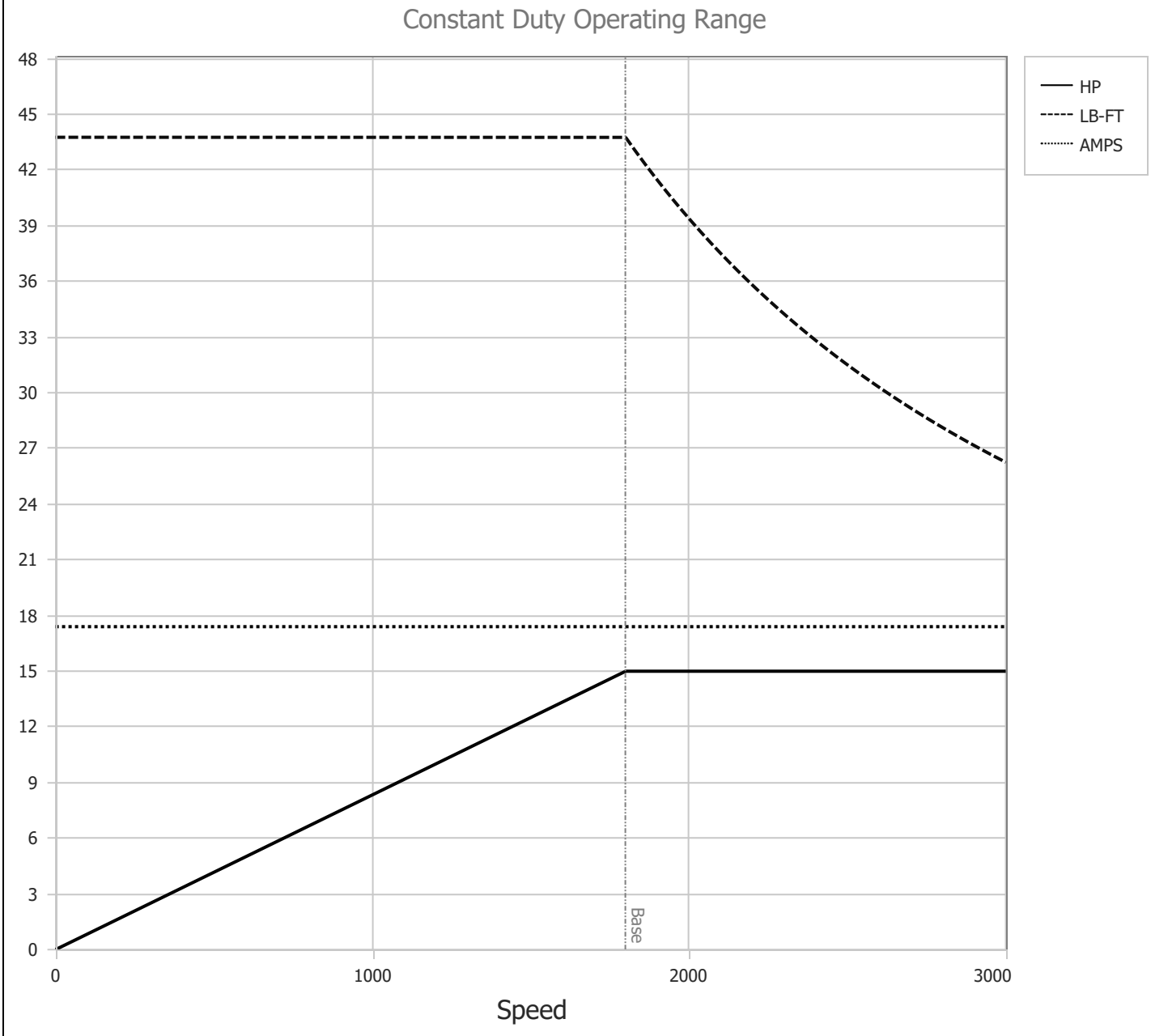
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	HP	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1800	100%	43.8	100%	15.0	93.5	6.90%	781
P2	900	50%	43.8	100%	7.5	90.1	5.42%	613
P3	306	17%	43.8	100%	2.6	80.2	4.15%	470
P4	1800	100%	21.9	50%	7.5	92.6	3.96%	449
P5	900	50%	21.9	50%	3.7	90.5	2.61%	295
P6	306	17%	21.9	50%	1.3	81.5	1.90%	216
P7	900	50%	11.0	25%	1.9	88.7	1.57%	177
P8	306	17%	10.9	25%	0.6	79.3	1.10%	124

Points not taken in certified order.

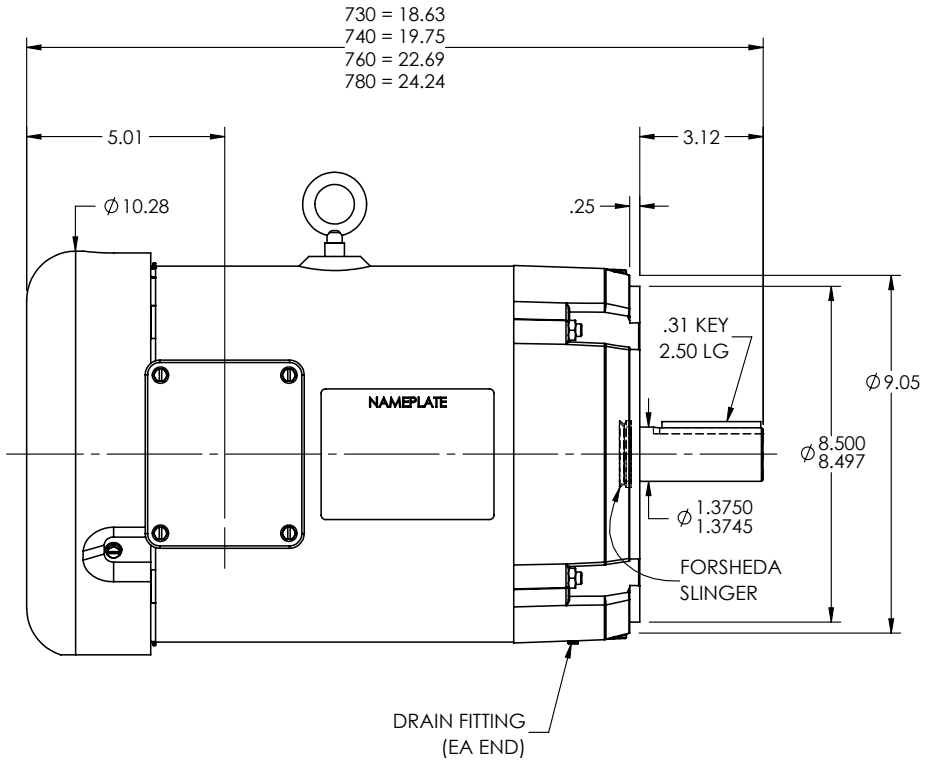
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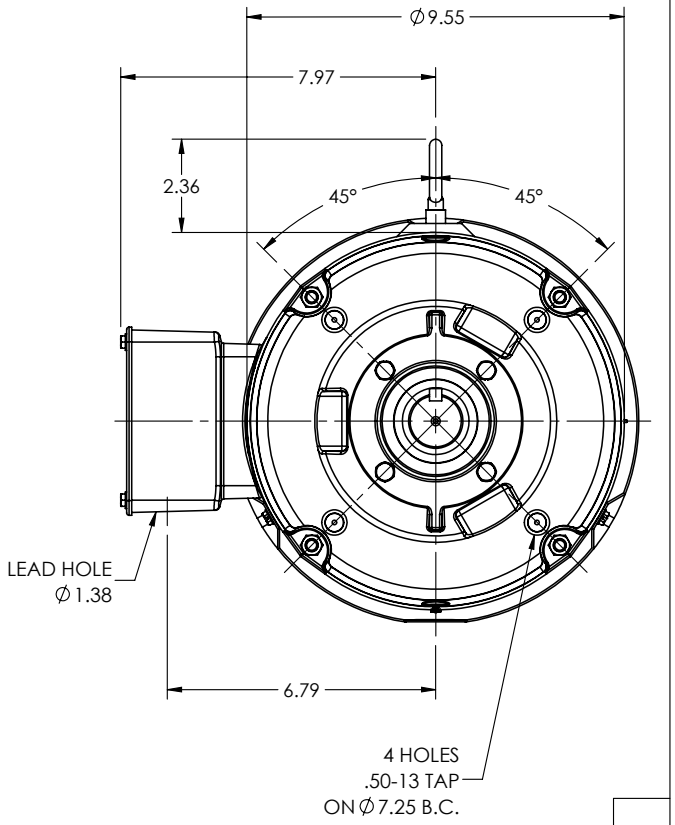
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37LYQ488





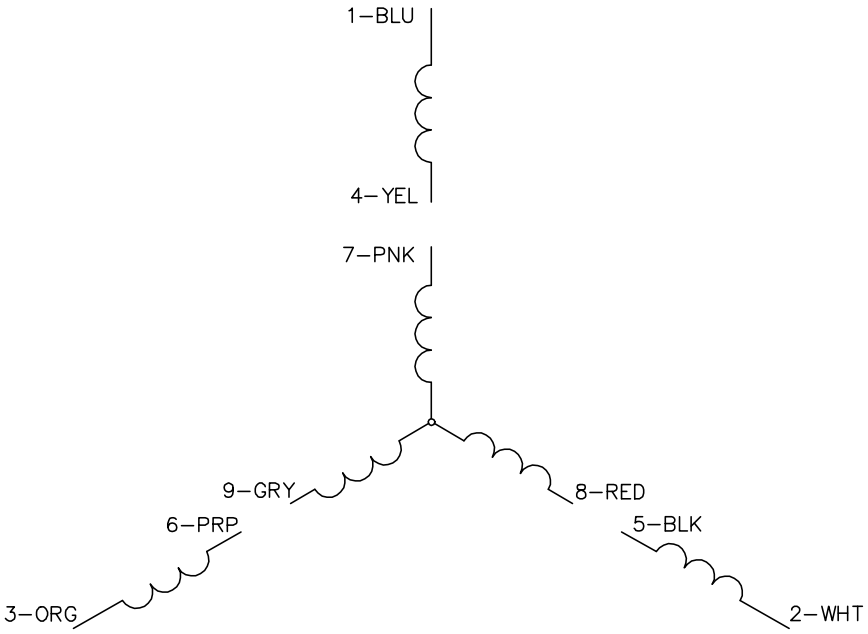
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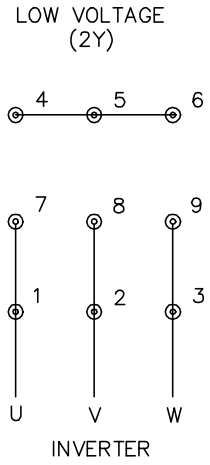
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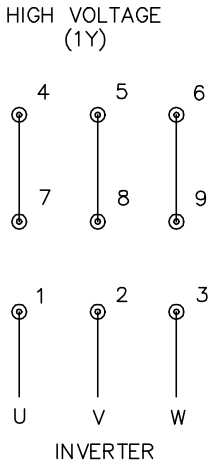
BALDOR - RELIANCE®

VER 213-5TC TEFC B INT SH GND ECS

CD0005A25







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005A25

REV. DESC: NEW		
REV. LTR: –	VERSION: 00	TDR: 000001135746
FILE: \AAA\00253\082	REVISED: 01:10:57 03/30/2020	BY: ENMARSO
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, ECS

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