ABB BALDOR RELIANCE

Customer information packet

P18G2701

5HP, 1725RPM, 3PH, 60HZ, 180TY, TEXP, V1
Class - CLI GP C,D
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
9/7/2026 3:49:17 AM

Specifications

Enclosure	XPNV
Frame	180TY
Frame Material	Iron
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	5.000 @ 60 HZ
Phase	3
Voltage @ Frequency	460 V @ 60 HZ
	230 V @ 60 HZ
Agency Approvals	UL
	CSA
	CCSA US
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Current @ Voltage	14.0 A @ 230 V
	7.00 A @ 460 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	15 MIN
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	26.66 IN
Pulley End Bearing Type	Ball

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	E02261H AG024
Layout	066930-500
Eff. date	04-24-2024
CD Diagram	416820-001
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Pulley Face Code	P-Base
Service Factor	1.15
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

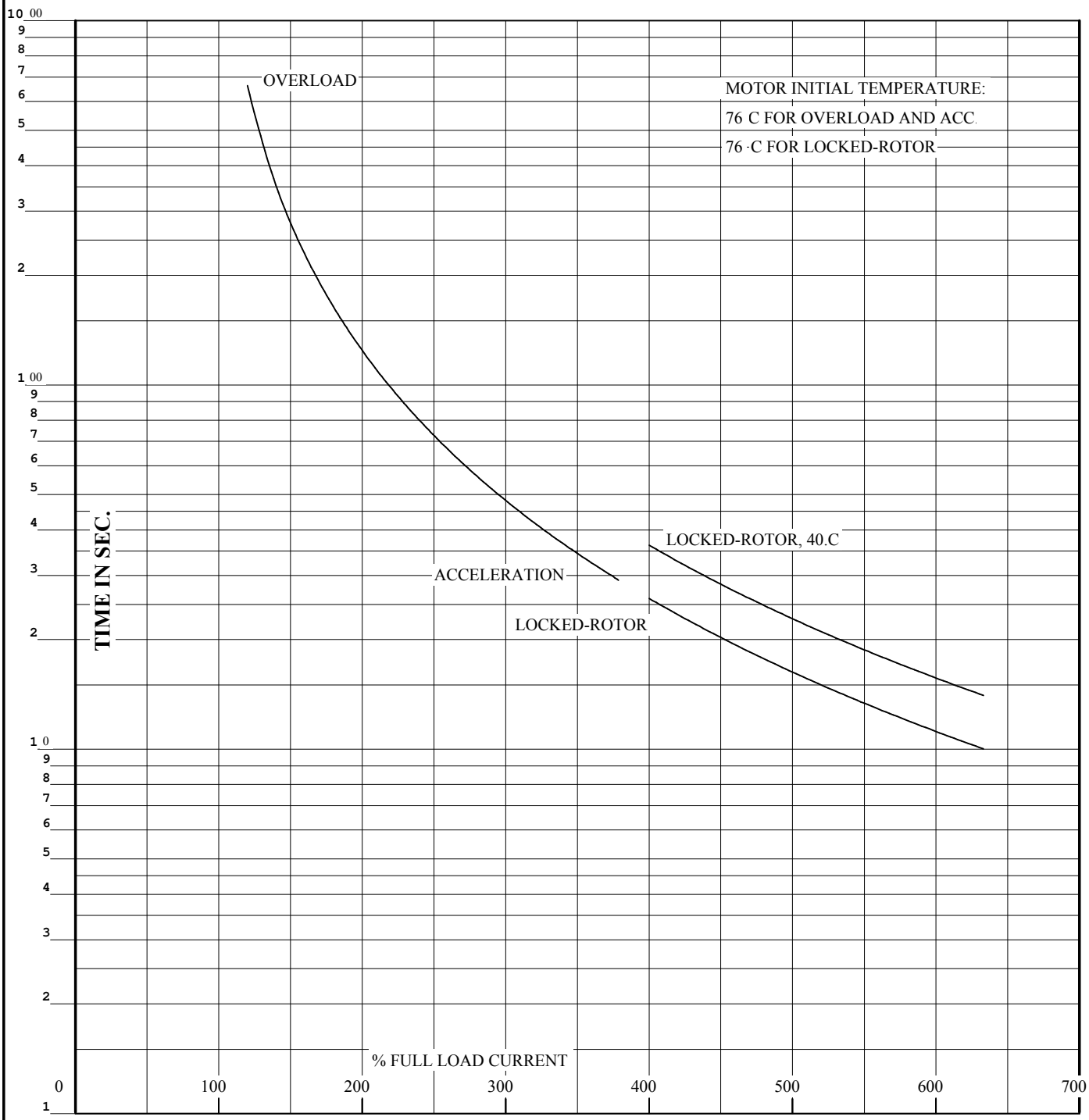
000613007MN												
CAT NO			**SPEC NO.**	P18G2701								
HP	5	**AMPS**	14.0/7.00		**VOLTS**	230/460		**DESIGN**	B			
FRAME SIZE	X0180TY		**RPM**	1725	**HZ**	60	**AMB**	40	**SF**	1.15		
D.E. BRG.	50BC02JPP30A				**PH**	3	**DUTY**	15MIN		**INSUL**	F	
O.D.E. BRG.	25BC02JPG30A				**TYPE**	P	**ENCL**	TENV		**CODE**	H	
					POWER FACTOR					**NEMA-NOM-EFF**		
					MAX CORR KVAR					**GUARANTEED EFFICIENCY**		
					NEMA NOM/CSA QUOTED EFF @					**100% LOAD**		
SER.NO.					**MOTOR WEIGHT**				**LBS.**			
	*15 MIN IN AIR ;SUB. IN											
	SEWAGE / WATER ONLY ONLY;											
	FINAL. CONN AT 230V											

000613007RC			
CLASS I GROUP	C D X	**NO.**	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

000613007MN

CAT NO			**SPEC NO.**	P18G2701							
HP	5	**AMPS**	14.0/7.00		**VOLTS**	230/460		**DESIGN**	B		
FRAME SIZE	X0180TY	**RPM**	1725	**HZ**	60	**AMB**	40	**SF**	1.15		
D.E. BRG.	50BC02JPP30A		**PH**	3	**DUTY**	15MIN		**INSUL**	F		
O.D.E. BRG.	25BC02JPG30A		**TYPE**	P	**ENCL**	TENV		**CODE**	H		
			POWER FACTOR					**NEMA-NOM-EFF**			
			MAX CORR KVAR					**GUARANTEED EFFICIENCY**			
			NEMA NOM/CSA QUOTED EFF @					**100% LOAD**			
SER.NO.			**MOTOR WEIGHT**					**LBS.**			
	*15 MIN IN AIR ;SUB. IN										
	SEWAGE / WATER ONLY ONLY;										
	FINAL. CONN AT 230V										

REL. S.O.	S1201091736	RPM	1725	S.F.	1.00	ROTOR	418424-37BE
FRAME	180TY	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	5	AMPS	14.0/7.0	CODE LETTER	H	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TENV	STATOR RES.@ 25 °C.	932/3.72
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	536341		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: SUBMERSIBLE MOTOR

*15MIN IN AIR, CONT IN LIQUID

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR A MEMBER OF THE ABB GROUP

DR. BY	D. M. BYRD
CK. BY	T. S. WILLIAMS
APP. BY	D. M. BYRD
DATE	10/12/04

A-C MOTOR PERFORMANCE CURVES

E02261-HAG024/ S1201091736

ISSUE DATE 07/15/16

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
S1201091736	180TY	5	P	3/60	1725	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
14.0/7.0	CONT	40/F	1.00	B	H	TENV

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
536341	418424-37BE	---	---	.932/3.72

PERFORMANCE

LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFI-CIENCY
NO LOAD	0	2.7	1800	.444	20.5	0
1/4	1.25	3.3	1781	1.41	54.1	66.3
2/4	2.50	4.2	1765	2.42	71.9	77.0
3/4	3.75	5.5	1747	3.50	79.9	79.9
4/4	5.00	7.0	1727	4.65	83.9	80.2
5/4	6.25	8.6	1703	5.90	86.1	79.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	192	29.2	40.0
PULL UP	350	173	26.3	38.0
BREAKDOWN	1400	272	41.3	25.1
FULL LOAD	1727	100	15.2	7.0

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA
SUBMERSIBLE MOTOR
*15MIN IN AIR, CONT IN LIQUID

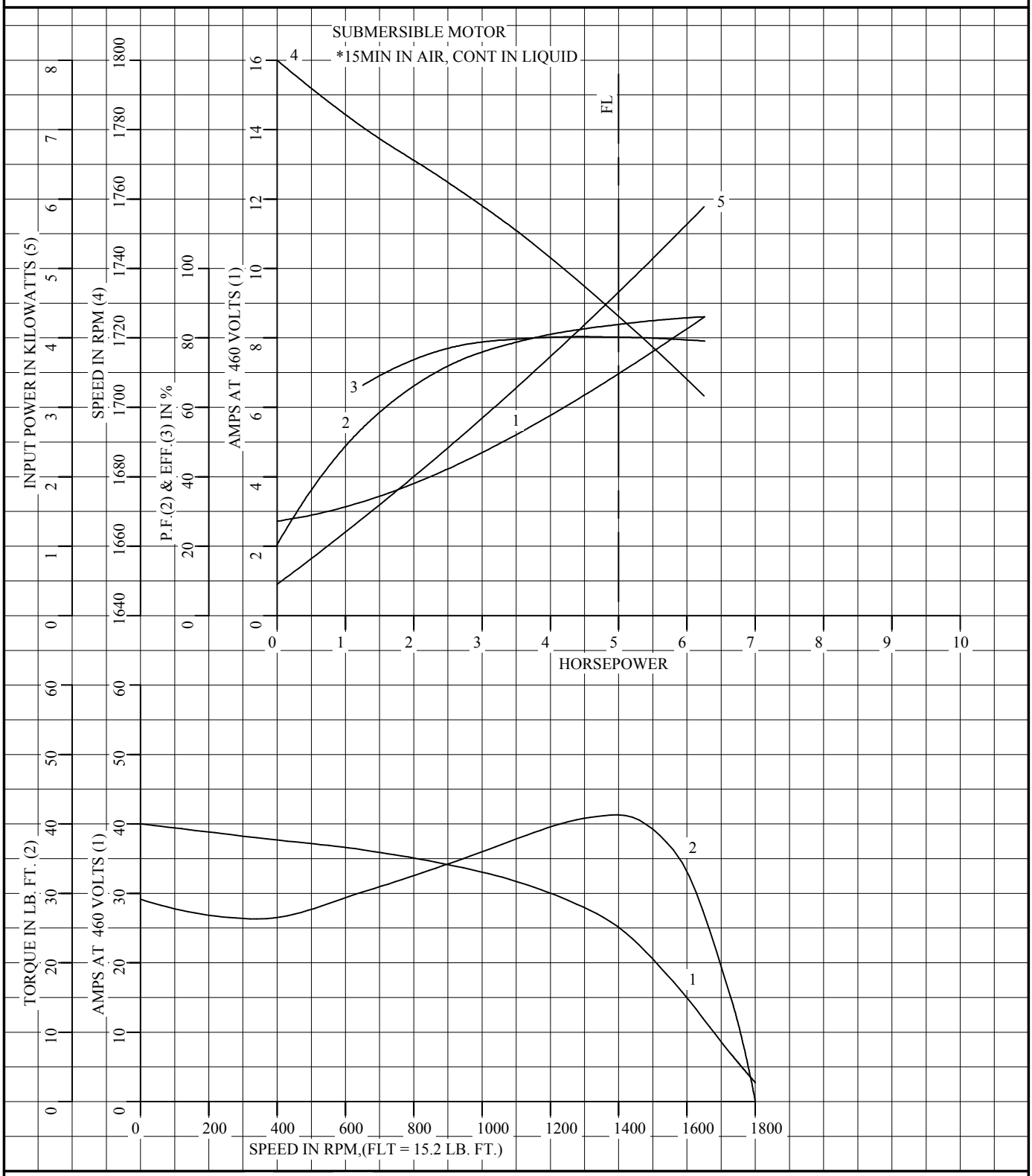
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY D. M. BYRD
CK. BY T. S. WILLIAMS
APP. BY D. M. BYRD
DATE 10/12/04

A-C MOTOR PERFORMANCE DATA

E02261-HAG024/ S1201091736
ISSUE DATE 07/15/16

REL S.O.	S1201091736	RPM	1725	S.F.	1.00	ROTOR	418424-37BE
FRAME	180TY	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	5	AMPS	14.0/7.0	CODE LETTER	H	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TENV	STATOR RES.@ 25 °C	.932/3.72
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	536341		OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	D. M. BYRD
CK. BY	T. S. WILLIAMS
APP. BY	D. M. BYRD
DATE	10/12/04

A-C MOTOR PERFORMANCE CURVES

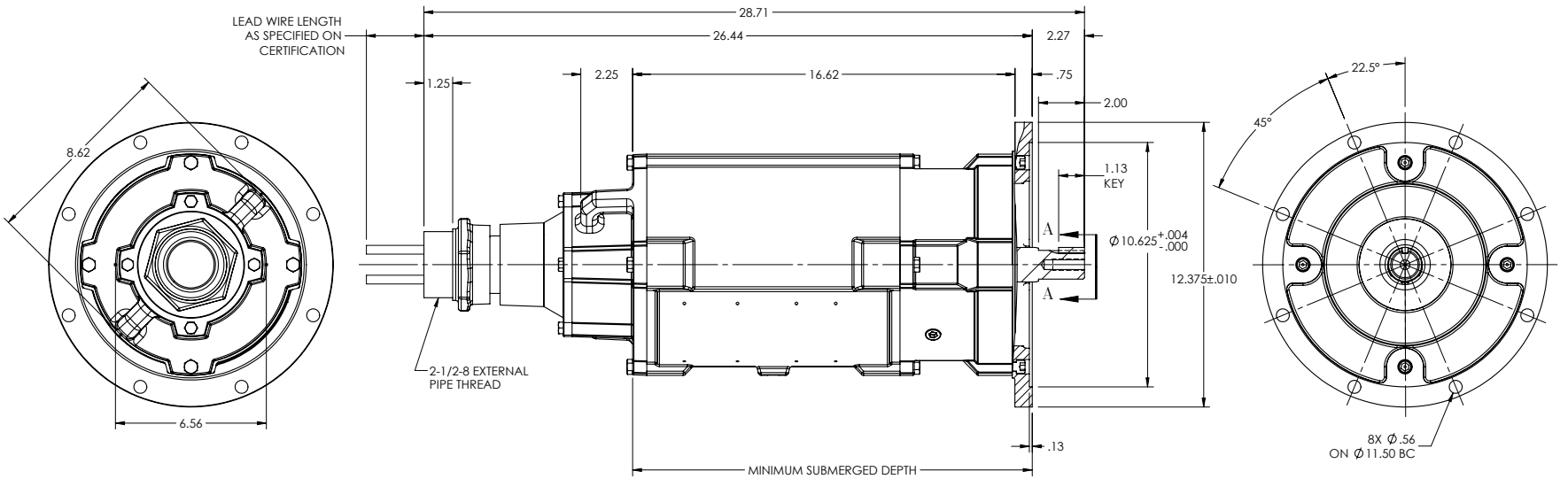
E02261-HAG024/
S1201091736
ISSUE DATE 07/15/16

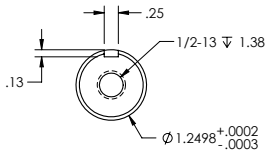
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE

066930-500





SECTION A–A

NOTES:
1. FACE RUNOUT AND ECCENTRICITY .008 MAX T.I.R.
2. PROTECTIVE CONDUIT FURNISHED BY CUSTOMER
3. WEIGHT (LBS): 200

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: NEW (REPLACES 180TY ON 066930-017)			
REV: -	VERSION: 00	REVISED: 02:35:35 11/09/2015	TDR: 000000951199
MODEL NO. 066930-500			REF: -
BY: ENWINB0			B

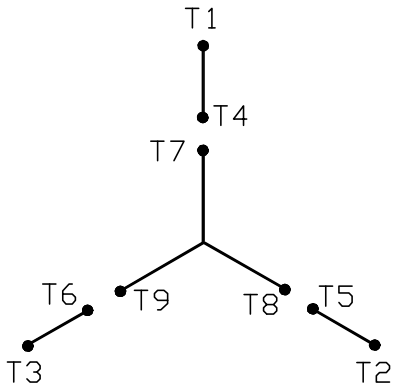
BALDOR

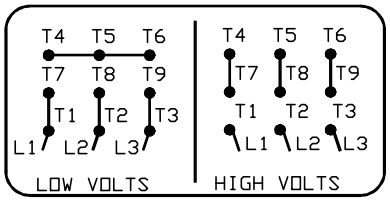
DIM SHT 180TY (066930-017)

066930-500

416820-001

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD Y CONNECTED





(N. P. 1575-A)

416820-001

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\659	REVISED: 10:33:07 12/21/2016	BY: MGHMTT
MTL: –		

BALDOR

CONN DIAG – STANDARD 9 LEAD, Y CONNECTED

SH 1 of 1