ABB BALDOR RELIANCE

Customer information packet

EM2559T-4CI

125HP, 1785RPM, 3PH, 60HZ, 405T, ODP, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	405T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CSA EEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	141.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	141.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 4 AWG

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0248
Layout	617428-119
Eff. date	09-04-2024
CD Diagram	416820-036
Poles	04
Leads	3#4 (02 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	P40G298		**CAT.NO.**	EM2559T-4CI						**FRAME**	405T	
HP	125	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	1785	**AMPS**	141	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	80BC03J30X		**DUTY**	CONT		**INSUL.CLASS**	F					
OPP D.E. BEARING	80BC03J30X		**ENCL**	DP	**CODE**	G						
SER.NO.			**POWER FACTOR**	87				**NEMA-NOM-EFFICIENCY**		95.4		
						MAX CORR KVAR	25.0	**GUARANTEED EFFICIENCY**		95.0		
						NEMA NOM/CSA QUOTED EFF						
								MOTOR WEIGHT				

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	125	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
141	CONT	40/B	1.15	B	G	PROT

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496084	418142-31-ME	---	---	.0436

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	43.2	1800	3.72	0
1/4	31.3	54.8	1796	56.9	94.1
2/4	62.5	78.8	1793	77.4	95.9
3/4	93.7	108	1789	84.5	96.0
4/4	125	141	1784	86.9	95.6
5/4	156	176	1780	87.3	95.0

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	149	549	897
PULL UP	700	122	449	832
BREAKDOWN	1721	225	828	484
FULL LOAD	1784	100	368	141

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

REMARKS: TYPICAL DATA
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT.
GUARANTEED MIN. EFF. 95.0

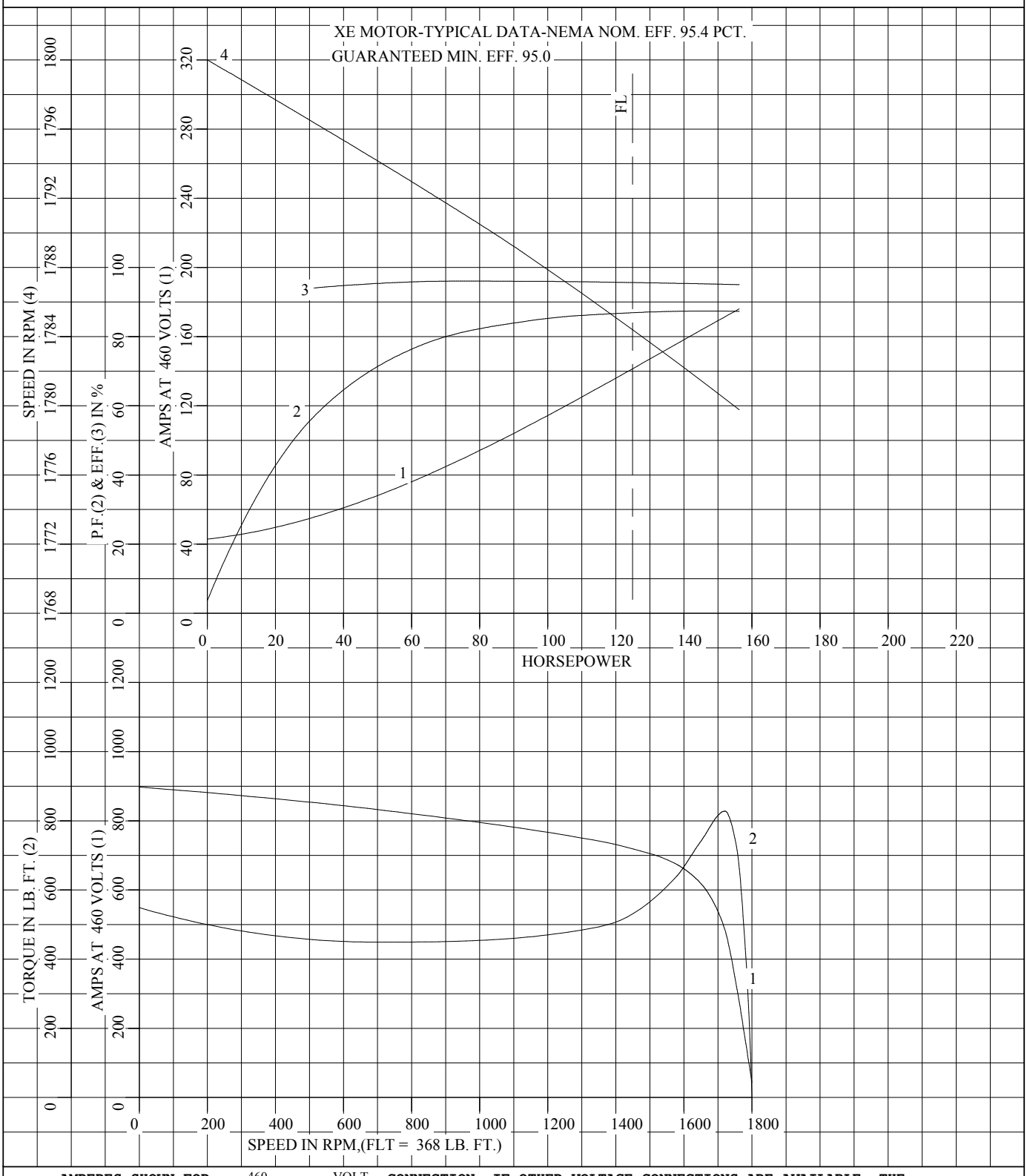
BALDOR

DR. BY P.B. GREENE
CK. BY K.W. KANOUFF
APP. BY K.W. KANOUFF
DATE 09/15/89

A-C MOTOR PERFORMANCE DATA

A40WG0248-R002
ISSUE DATE 12/16/10

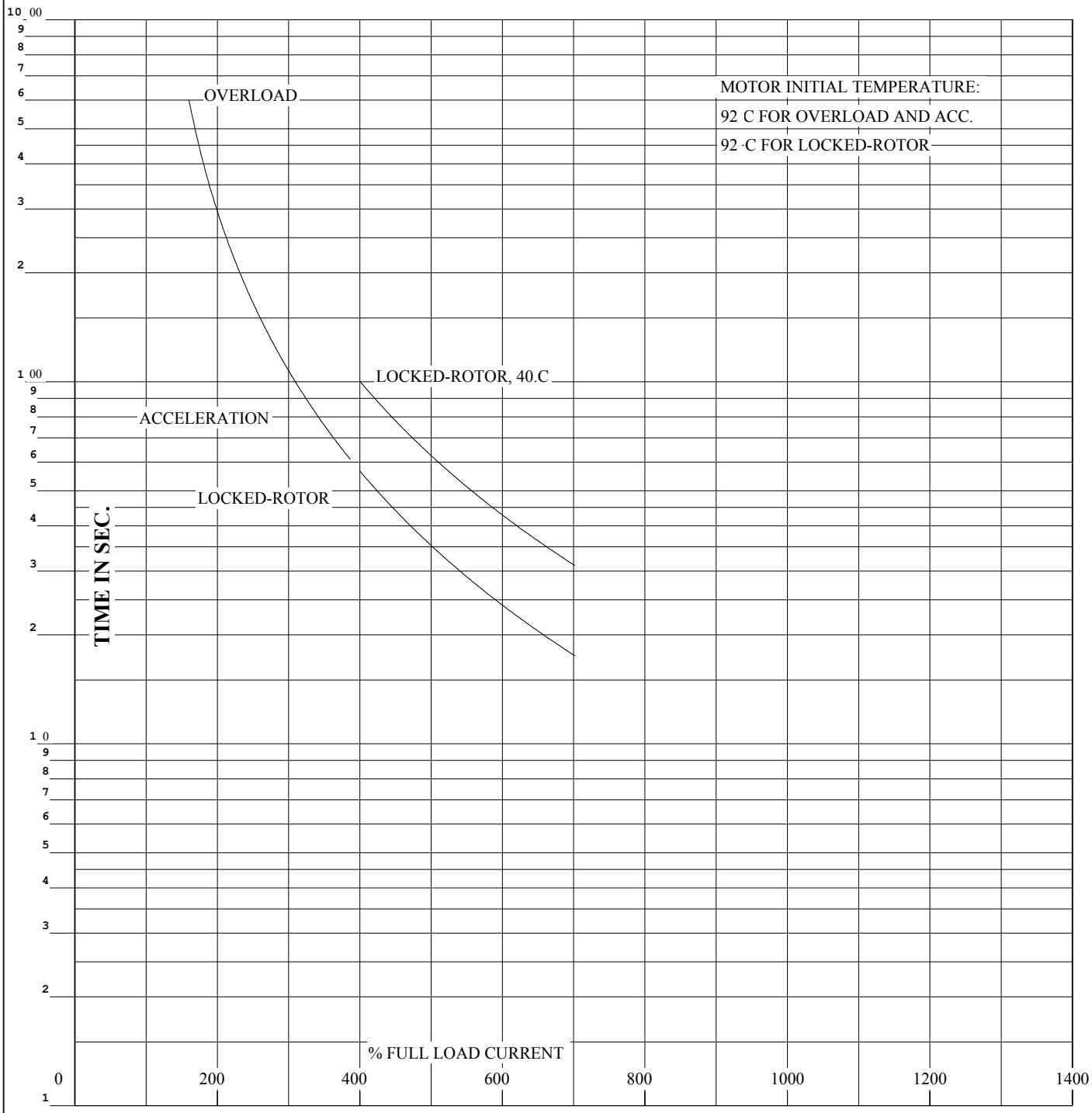
FRAME 405T	RPM 1785	S.F. 1.15	ROTOR 418142-31-ME
HP 125	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 141	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 ℃ .0436
	AMB ℃/INSUL 40/B	E/S 496084	OHMS (BETWEEN LINES)



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

BALDOR	DR. BY P.B. GREENE CK. BY K.W. KANOUFF APP. BY K.W. KANOUFF DATE 09/15/89	A-C MOTOR PERFORMANCE CURVES	A40WG0248-R002 ISSUE DATE 12/16/10

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418142-31-ME
FRAME 405T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 141	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 °C.0436
PHASE/HERTZ 3/60	AMB °C/INSUL 40/B	E/S 496084	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT.

GUARANTEED MIN. EFF. 95.0

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

BALDOR

DR. BY	P.B. GREENE
CK. BY	K.W. KANOUFF
APP. BY	K.W. KANOUFF
DATE	09/15/89

A-C MOTOR PERFORMANCE CURVES **A40WG0248-R002**

ISSUE DATE 12/16/10

DUTY MASTER ALTERNATING CURRENT MOTORS

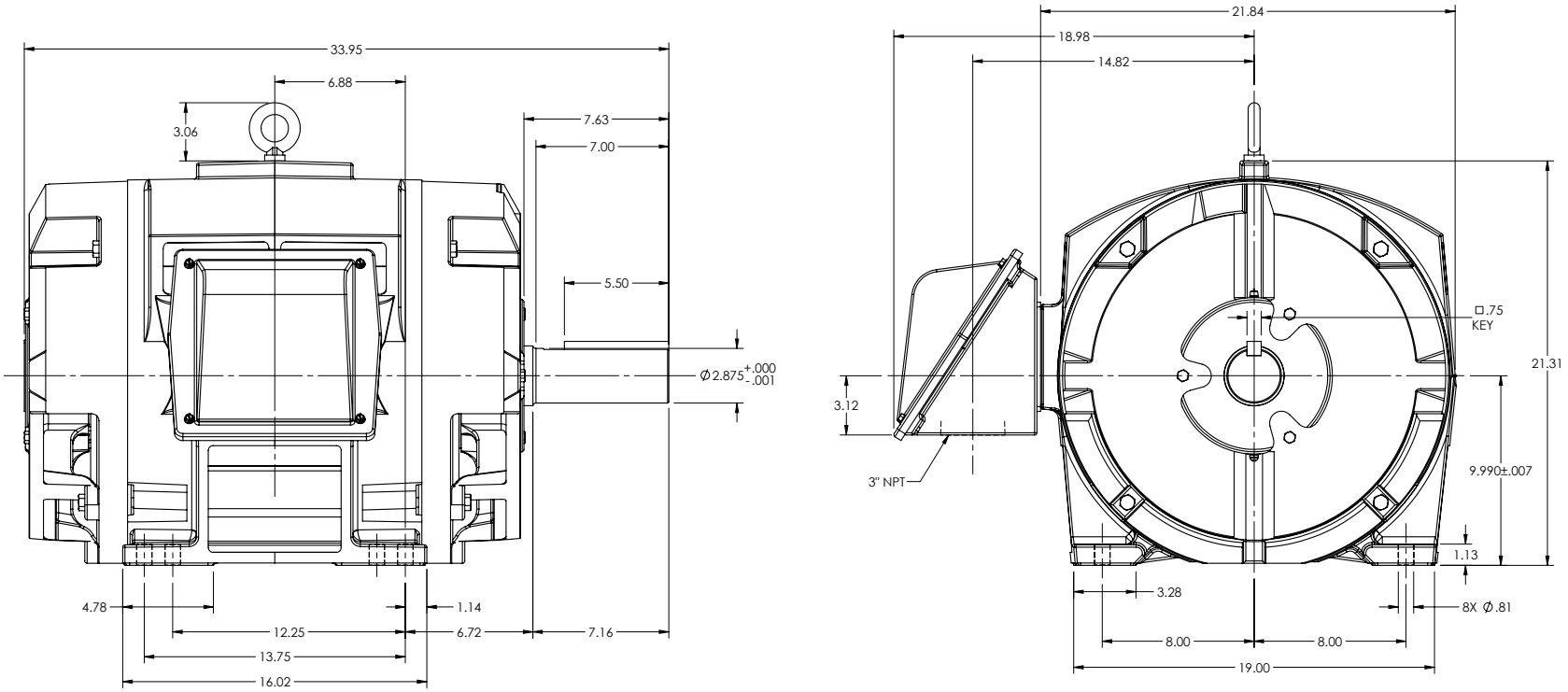
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-119

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 404T-405T

COOLING: SELF-VENTILATED



MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .003 T.I.R.

WEIGHT (LBS): 404T = 1045
405T = 1085

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

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

REV. DESC: NEW TO REPLACE 404-5T ON 611750-501			
REV: -	VERSION: 00	REVISED: 08:12:43 06/09/2016	TDR: 000000983687
MODEL NO. 617428-119			REF: -
BY: ENWINB0			B

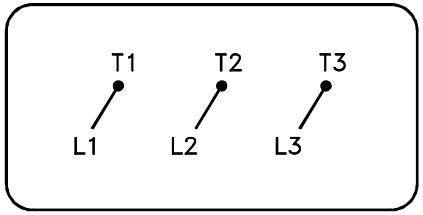
BALDOR

DIM SHT 404-5T (611750-501)

617428-119

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575–BA)

416820–036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1