



Customer information packet

EM2544T-CI

50HP, 1185RPM, 3PH, 60HZ, 365T, 1466M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	120.000 A @ 230.0 V 60.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	60.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0753
Layout	617428-130
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#6,6#8
Proprietary	False
Created date	10-19-2010

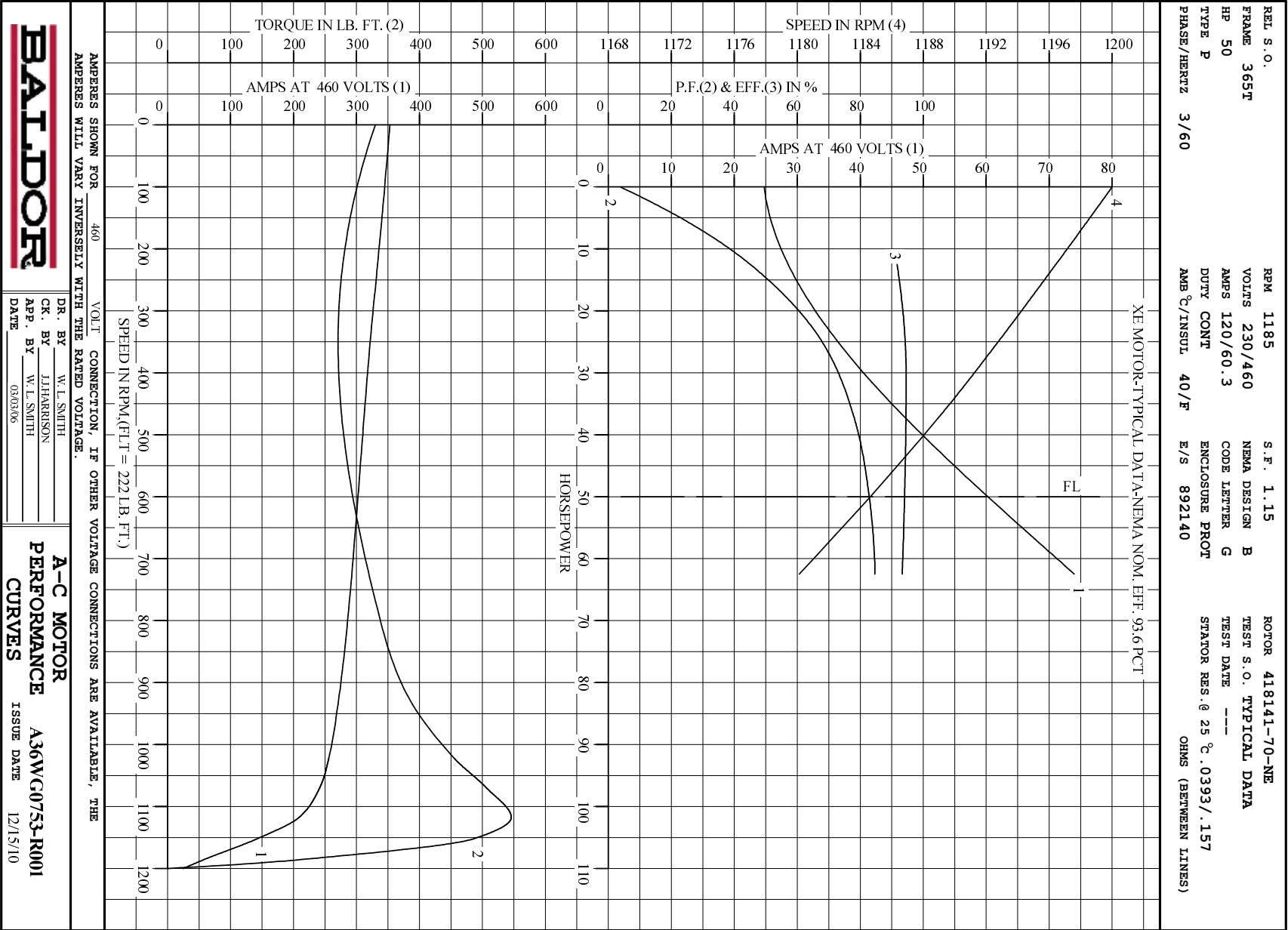
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36052M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	29.70 IN
Power Factor	83
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L

SPEC NO.	P36G3403		CAT.NO.		EM2544T-CI				FRAME		365T				
HP	50	VOLTS		230/460		PHASE		3	DESIGN		B	TYPE		P	
RPM	1185	AMPS		120/60.3		HZ		60	AMB		40	SF		1.15	
DRIVE END BEARING	65BC03J30X			DUTY		CONT		INSUL.CLASS			F				
OPP D.E. BEARING	65BC03J30X			ENCL		DP		CODE		G					
SER.NO.				POWER FACTOR				83		NEMA-NOM-EFFICIENCY				94.1	
									MAX CORR KVAR		15.0		GUARANTEED EFFICIENCY		93.6
									NEMA NOM/CSA QUOTED EFF						
									MOTOR WEIGHT						

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
120/60.3	CONT	40/F	1.15	B	G	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892140	418141-70-NE	---	---	.0393/.157		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	24.8	1200	3.81	0	
1/4	12.5	28.4	1196	45.1	91.7	
2/4	25.0	36.6	1193	67.9	94.3	
3/4	37.5	47.5	1189	78.2	94.5	
4/4	50.0	60.1	1185	82.8	94.1	
5/4	62.5	74.0	1180	84.7	93.3	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	149	330	353		
PULL UP	350	122	271	322		
BREAKDOWN	1118	246	546	209		
FULL LOAD	1185	100	222	60.1		
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. 93.6 PCT						
BALDOR			DR. BY W. L. SMITH CK. BY J. J. HARRISON APP. BY W. L. SMITH DATE 03/03/06		A-C MOTOR PERFORMANCE DATA A36WG0753-R001 ISSUE DATE 12/15/10	



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REL. S.O.
FRAME 365T
HP 50
TYPE P
PHASE/HERTZ 3/60

RPM 1185
VOLTS 230/460
AMPS 120/60.3
DUTY CONT
AMB °C/INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE PROT
E/S 892140

ROTOR 418141-70-NE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °C .0393/.157
OHMS (BETWEEN LINES)

10.00
9
8
7
6
5
4
3
2
1.00
9
8
7
6
5
4
3
2
1

OVERLOAD
ACCELERATION
LOCKED-ROTOR
LOCKED-ROTOR 40.C
MOTOR INITIAL TEMPERATURE:
86 C FOR OVERLOAD AND ACC.
86 C FOR LOCKED-ROTOR

TIME IN SEC.

1
0
100
200
300
400
500
600
700

% FULL LOAD CURRENT

REMARKS:
THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 93.6 PCT

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

BALDOR

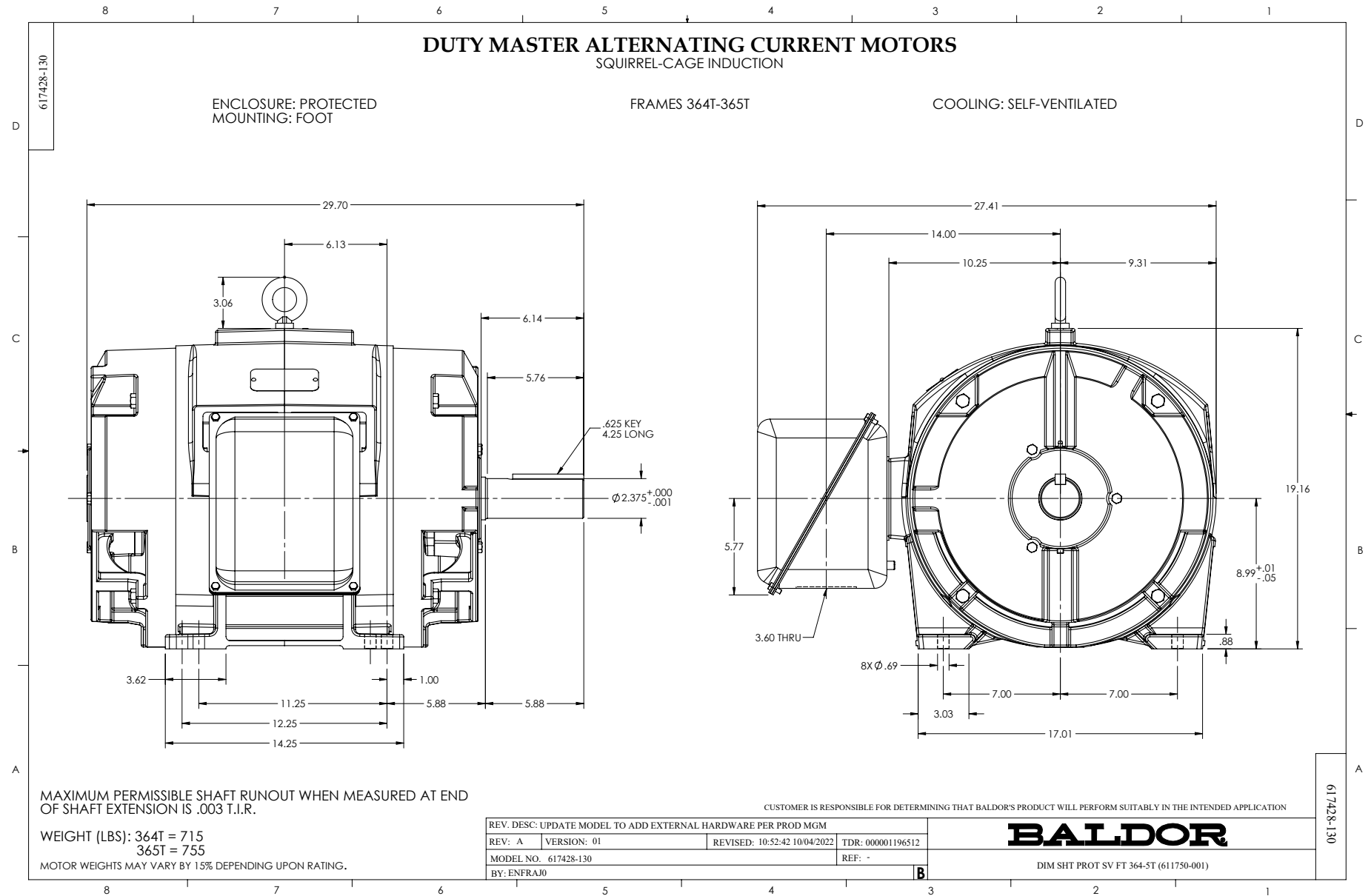
DR. BY W.L. SMITH
CK. BY J.HARRISON
APP. BY W.L. SMITH
DATE 03/03/06

A-C MOTOR
PERFORMANCE
CURVES

A36WC0753-R001
ISSUE DATE 12/15/10

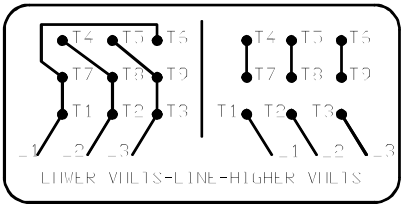
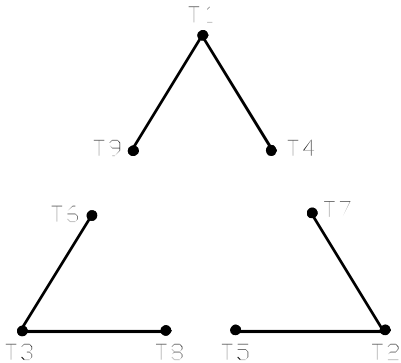
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416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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