

BALDOR® • RELIANCE

Product Information Packet

EM4312T

50HP,1185RPM,3PH,60HZ,365T,1474M,TEFC,F1

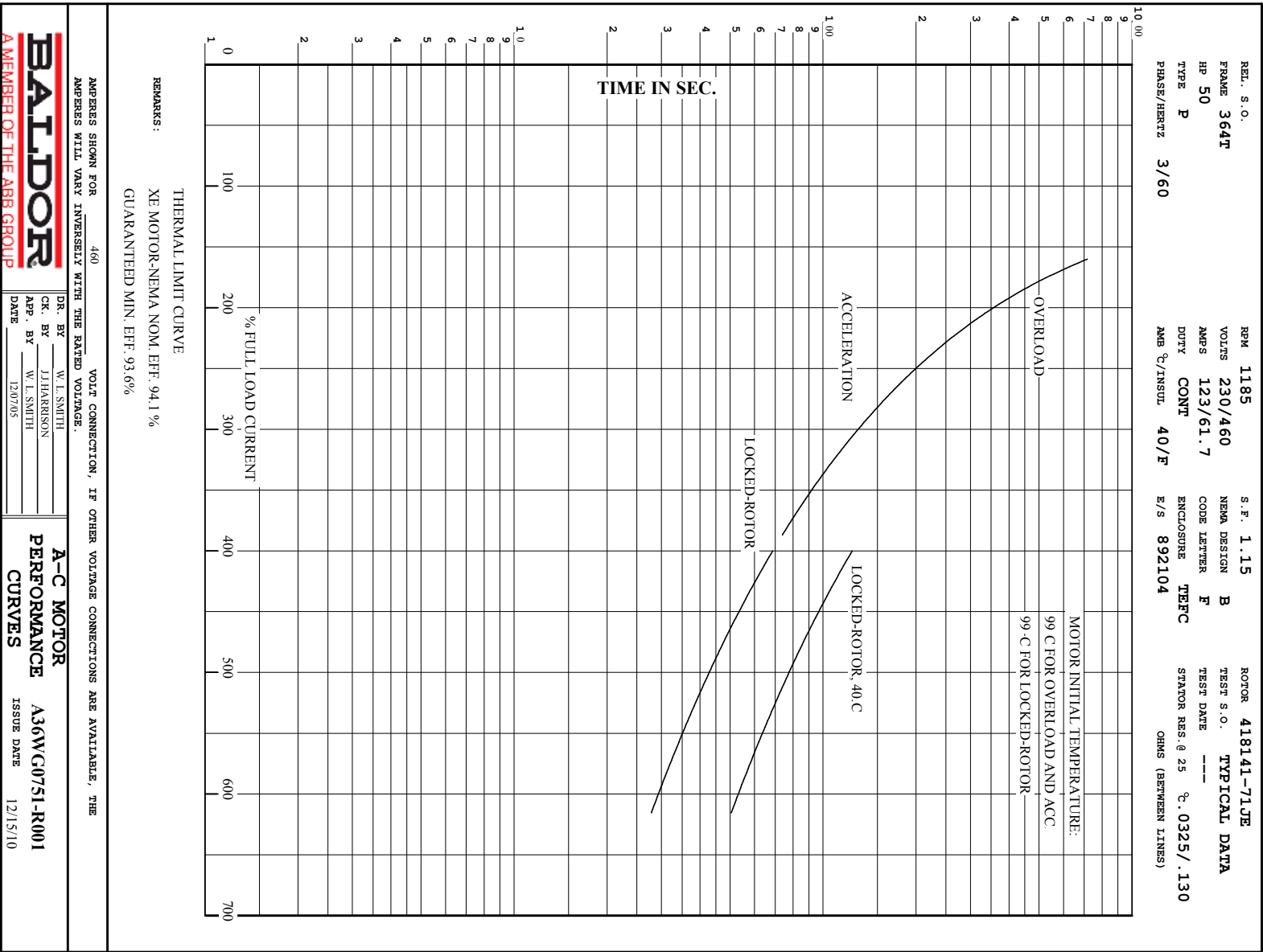
Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A36WG0751	CD Diagram:	416820-002	Mfg Plant:	
Mech. Spec:		Layout:	617428-012	Poles:	06	Created Date:	10-19-2010
Base:		Eff. Date:	10-12-2017	Leads:	3#4,6#6		

Specs			
Catalog Number:	EM4312T	Feedback Device:	NO FEEDBACK
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	365T	Insulation Class:	F
Frame Material:	Iron	Inverter Code:	Inverter Ready
Output @ Frequency:	50.000 HP @ 60 HZ	KVA Code:	F
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 4 AWG
	460.0 V @ 60 HZ	Motor Type:	A36062M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	81
Agency Approvals:	CCSA US	Pulley End Bearing Type:	Ball
	CSA EEV	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Shaft Ground Indicator:	No Shaft Grounding
Base Indicator:	Rigid	Shaft Rotation:	Reversible
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Slinger Indicator:	No Slinger
Current @ Voltage:	123.000 A @ 230.0 V	Speed Code:	Single Speed
	61.700 A @ 460.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Direct on line

Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None

Nameplate NP2383L

CAT.NO.	EM4312T	SPEC NO.	P36G3401
HP	50	AMPS	123/61.7
FRAME	365T	RPM	1185
DRIVE END BEARING	65BC03J30X	HZ	60
OPP D.E. BEARING	65BC03J30X	AMB	40
SER.NO.		SF	1.15
		INSUL.CLASS	F
		PHASE	3
		DUTY	CONT
		TYPE	P
		ENCL	TEFC
		CODE	F
		POWER FACTOR	81
		NEMA-NOM-EFFICIENCY	94.1
	SUIT FOR 208V @ 133 AMPS	MAX CORR KVAR	14.0
NEMA NOM/CSA QUOTED EFF		GUARANTEED EFFICIENCY	93.6
		MOTOR WEIGHT	



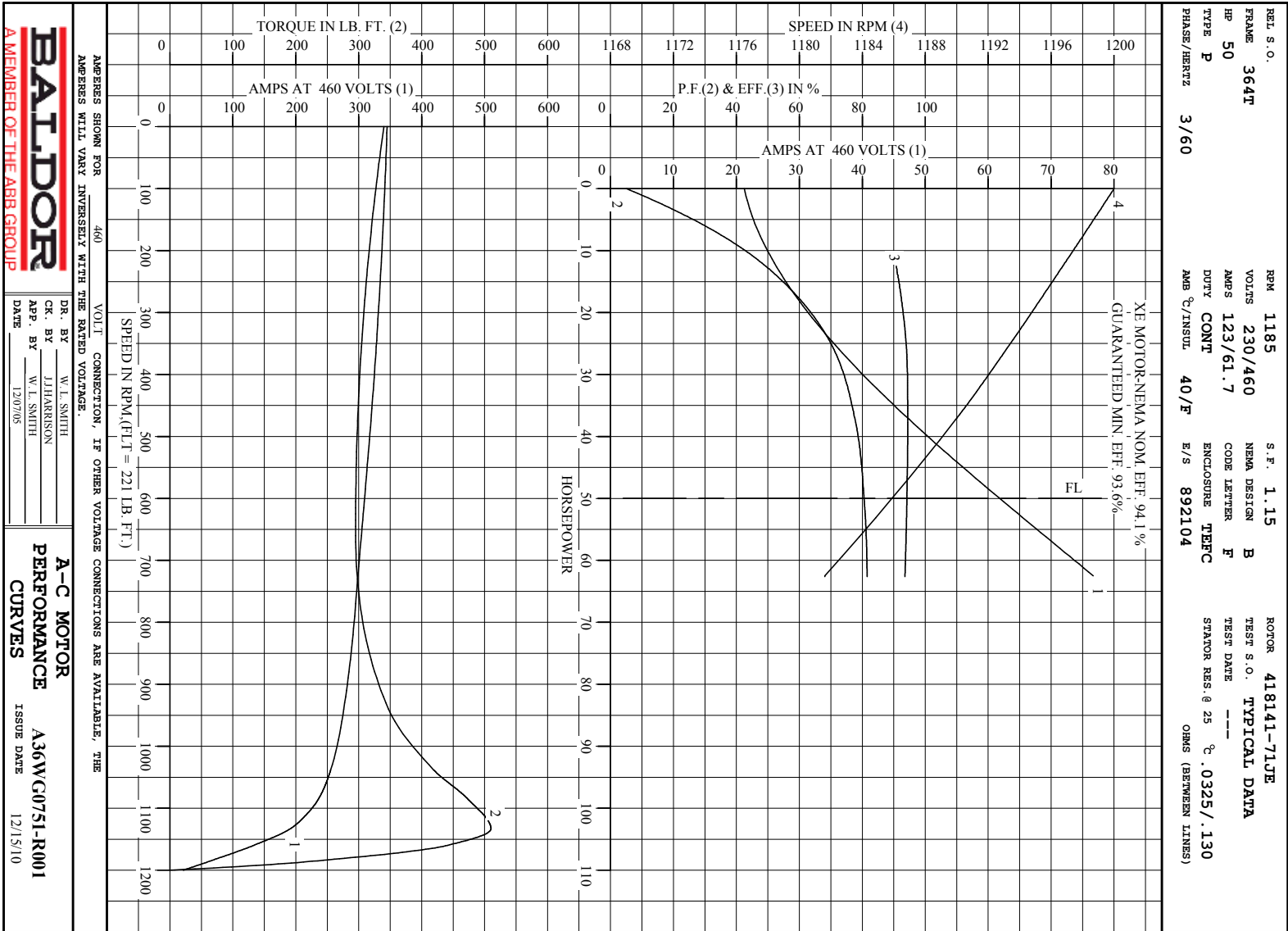
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	50	P	3/60	1185	230/460
AMPS	DUTY	AMB ^{°C} / INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
123/61.7	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 ^{°C} OHMS (BETWEEN LINES)		
892104	418141-71JE	---	---	.0325/.130		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR	% EFFICIENCY	
NO LOAD	0	21.3	1200	5.08	0	
1/4	12.5	26.2	1197	49.4	90.8	
2/4	25.0	35.6	1193	70.0	93.9	
3/4	37.5	47.8	1190	77.8	94.4	
4/4	50.0	61.7	1186	80.6	94.2	
5/4	62.5	76.7	1182	81.5	93.6	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	154	340	345		
PULL UP	650	133	295	305		
BREAKDOWN	1133	230	510	191		
FULL LOAD	1186	100	221	61.7		

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

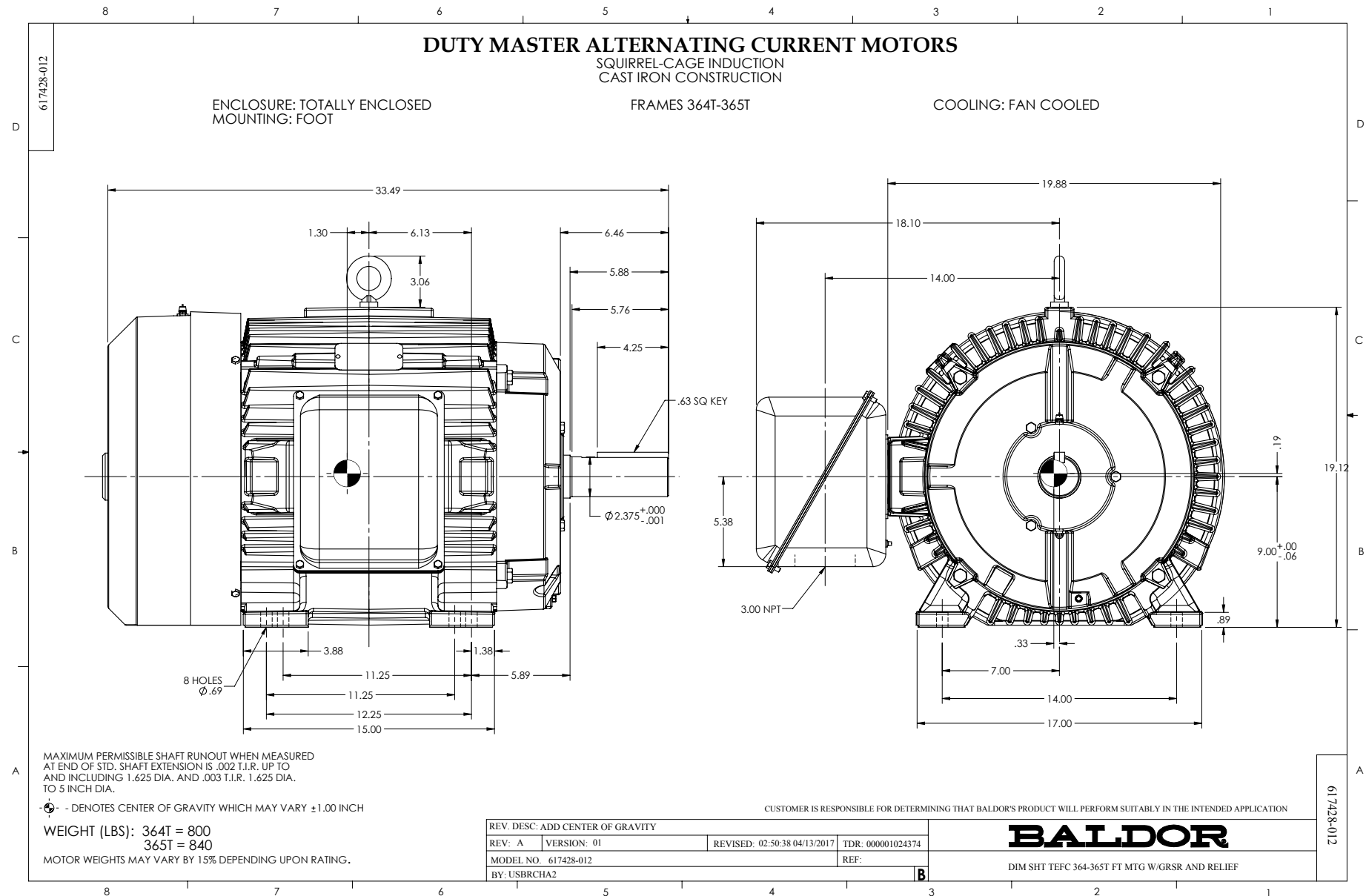
REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 94.1 %
GUARANTEED MIN. EFF. 93.6%

DR. BY W. L. SMITH	A-C MOTOR
CK. BY J. J. HARRISON	PERFORMANCE
APP. BY W. L. SMITH	DATA
DATE 12/07/05	ISSUE DATE 12/15/10

A MEMBER OF THE ABB GROUP

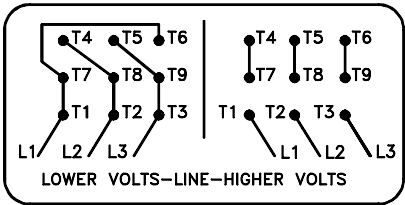
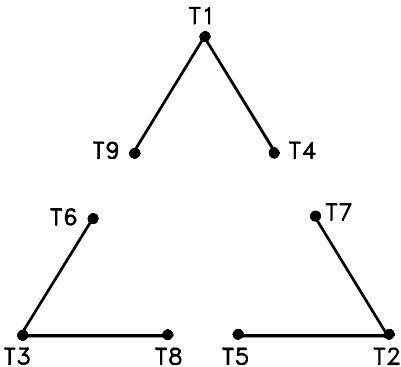


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416820-002

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



(N.P. 1575-B)

416820-002

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR	
REV. LTR: -	VERSION: 00	TDR: 000000538207		
FILE: \MGA\00000\661		REVISED: 10: 47: 51 04/30/2010	CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED	
MTL: -		BY: RAGRA	SH 1 of 1	