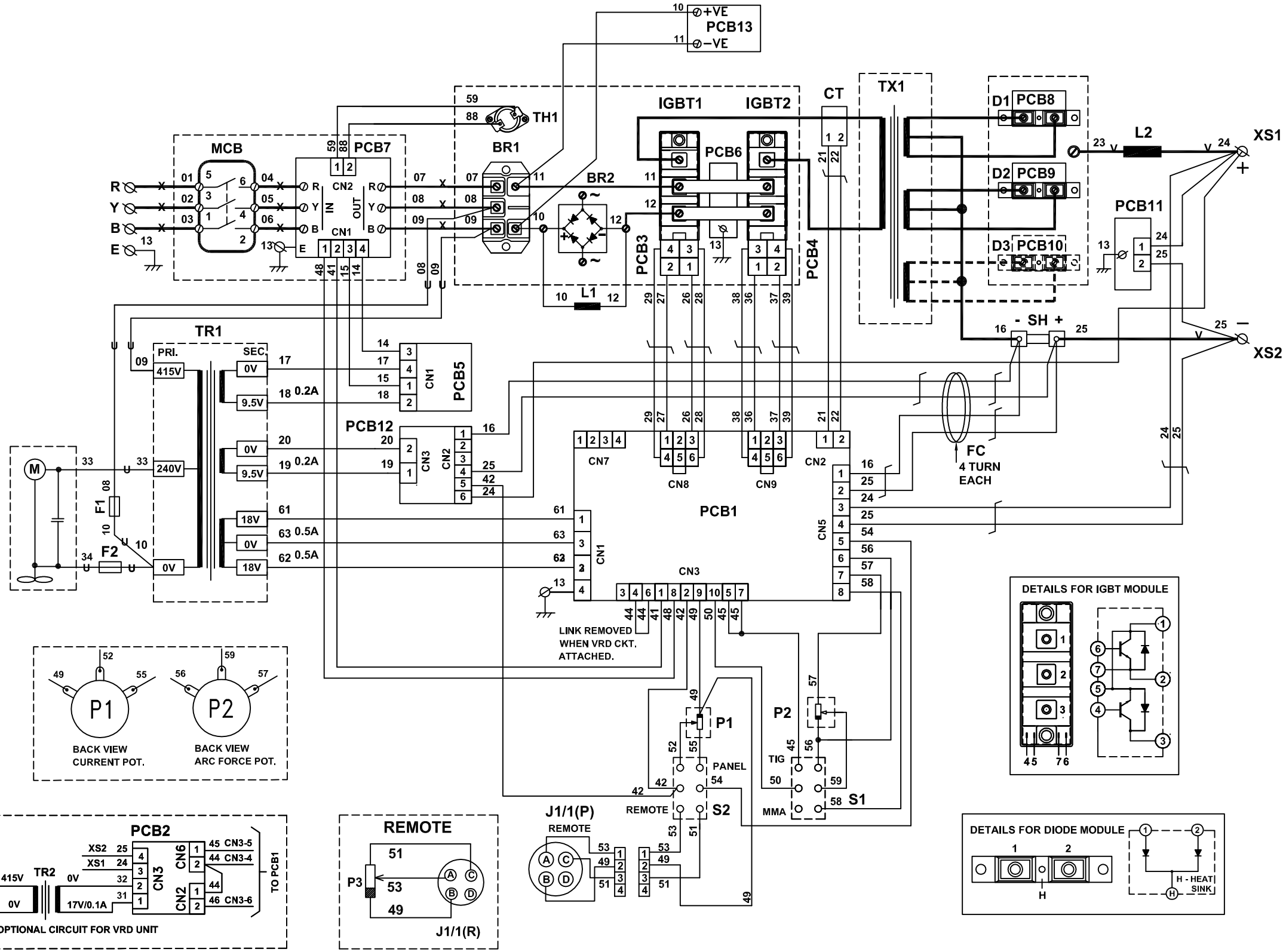

LEGEND :

BR1	Ø3 PH BRIDGE
BR2	Ø1 PH BRIDGE
CT	CURRENT TRANSFORMER CHG500
D1,D2,D3	DIODE MODULE
	D3 USED FOR CHAMP 500,600 ONLY
F1	FUSE 0.5A
F2	FUSE 1A SLOW BLOW
FC	TORROIDAL FERRITE BEAD 31.5Ø
IGBT1,2	IGBT MODULE
J1	4 PIN PLUG (REMOTE)
L1	PRIMARY CHOKE 1
L2	SECONDARY CHOKE 2
M	1 PH FAN
MCB	MINIATURE CIRCUIT BREAKER
P1	CURRENT POT (10K / 1W)
P2	ARC FORCE POT (10K / 1W)
PCB1	MAIN PWM CUM IGBT DRIVER PCB
PCB3,4	IGBT G - S PCB
PCB5	MAINS TRIP INDICATION PCB
PCB6	DC TRANSIENT SUPPRESSOR CUM
	CAPACITOR PCB
PCB7	LINE FILTER CUM 3Ø PROTECTION PCB
PCB8,9,10	DIODE SNUBBER PCB
	PCB10 USED FOR CHAMP 500 600 ONLY
PCB11	HF BYPASS CUM LOAD RES. PCB
	(HF BYPASS PCB ONLY CHAMP 250)
PCB12	DUAL DPM PCB
PCB13	CAPACITOR FILTER PCB
S1	DPDT TOGGLE SWITCH (MMA / TIG)
S2	SELECTOR SWITCH (PANEL/REMOTE)
TH1	THERMOSTAT(FOR IGBT HS)
TX1	MAIN TRANSFORMER
TR1	CONTROL TRANSFORMER
SH	SHUNT
XS1	OUTPUT TERMINAL +VE
XS2	OUTPUT TERMINAL -VE

OPTIONAL CIRCUIT FOR VRD UNIT

PCB2	VRD PCB
TR2	CONTROL TRANSFORMER

LAST FERRULE USED 63

NOTE :
1. WIRE COLOUR IS INDICATED BY THE LAST DIGIT OF THE WIRE NUMBER AND IS AS PER FOLLOWING COLOUR CODE
   0-BLACK 1-BROWN 2-RED 3-ORANGE 4-YELLOW
   5-GREEN 6-BLUE 7-VIOLET 8-GRAY 9-WHITE
   FOR EXAMPLE 12 - RED, 20 - BLACK
2. WIRES TO BE TWISTED.
3. FAN DIRECTION-BLOWING TYPE
4. PCB CONNECTING WIRES SHOULD BE OF 0.50 Sq M.M.
5. U - WIRES SHOULD BE OF 0.75 SQ M.M.

(A) X - 2.5 Sq.m.m. 4 CORE SUPPLY CABLE.
(B) V - 35 Sq.m.m. WELDING CABLE.
(FOR CHAMP 250)

(C) X - 6 Sq.m.m. 4 CORE SUPPLY CABLE.
(D) V - 70 Sq.m.m. WELDING CABLE.
(FOR CHAMP 500, 600)

INDEX	MOD. NO.	DESCRIPTION	DATE	SIGN.

INDEX	MOD. NO.	DESCRIPTION	DATE	SIGN.

PROJECT: INVERTER MMA POWER SOURCE
MODEL: CHAMP 250 / 500 / 600 WITH DUAL DPM

2019	DATE	SIGN.
DRWN. BY	08/01	AMRUT
CHKD. BY		
APRD. BY		

SCALE: NTS
FILE NAME: CIRCUIT DIAGRAM CHAMP 250 500 600 WITH DUAL DPM
DSGN 4031/I4/R0

ADOR WELDING LIMITED
PUNE - 411019

CIRCUIT DIAGRAM

CK79 / 1089

SUPERSEDES No. -
SUPERSEDED BY No. -