CIRCUIT DRAWN WITH POWER SUPPLY OFF

M
3 ~

U
V
W
MOTOR

SSS MODULE

SK1

SK3
26 WAY
SK15

IN
3 W
1 U
2 V

W
V
U

2
3
1
E

3
PHASE
SUPPLY

FS1

U W X Y Z

PS1

SK2
0VAC 1
120VAC 4
0VDC 3
24VDC 6

4
5

24VDC
NOMINAL SUPPLY
(OUTPUT)

SK14
0VDC 1
24VDC 2

INTERNAL SUPPLY
FOR AUX POWER PCB

TRANSFORMER TAPPING OPTIONS	
Tap	Nominal 50/60Hz
TYPE 1	
W	220/230
X	380/400
Y	400,415/420
Z	440/460
FUSE FS1=250mA ANTI-SURGE	
TYPE 2	
W	346/380
X	480/500
Y	240/240
Z	550/575
FUSE FS1=250mA ANTI-SURGE	

REFER TO SHEET 2 FOR NOTES
& OPTION PCB'S IF FITTED

THE ACTUATOR MUST BE
PROTECTED USING SUITABLY
RATED HIGH SPEED
SEMI-CONDUCTOR FUSES ON THE
INCOMING SUPPLY.
SUGGESTED FUESES :-
IQ10-20:10 Amp FERRAZ G330010
IQ25-35:20 Amp FERRAZ K330013
ALTERNATIVES =
IQ10-20:10 Amp SIBA 50-179-06/10A
IQ25-35:20 Amp SIBA 50-179-06/20A
OR EQUIVALENT PROTECTIVE
DEVICE.

SK13
26 WAY
SK13

SK3
6
5
4
3
2
1

TORQUE
SENSOR

POSITION
SENSOR

SK8
10 WAY

BATTERY

SK9
4

1

FS2 (IF FITTED) 100mA

50%

CLOSE
OPEN

STOP
LOCAL
REMOTE

SK6
18 WAY

MONITOR RELAY

SK14
1
3
2

42
43
44

MAKE AT FULLY SHUT   S1
MAKE AT FULLY OPEN   S2
BREAK AT FULLY SHUT   S3
BREAK AT FULLY OPEN   S4

SK7
1
8
2
7
3
6
4
5

6
7
8
9
10
11
12
13

	SK4	
CLOSE	9	33
STOP/ MAINTAIN	10	34
OPEN	8	35
COMMON -VE	1	36
ESD	12	25
OPEN INTERLOCK	13	37
CLOSE INTERLOCK	14	38
COMMON -VE	5	31

SK1
SLOT A

SK2
SLOT B

Iss	Date	Chkd	Revision Details
1	140414	PJW	First Issue.
2	230614	MR	400v added to type 1 tapping Y. Note added to sheet 2 note 1.
3	130616	PW	Updated notes on page 2.

www.**rotork**.com

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ROTORK CONTROLS INC
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IQM + CPT + AUX POWER

Drawn by: JC1
Date   : 140414
Base WD: 201B1000
Job No   : - -
MI No   : - -

Circuit Diagram Number
201B1000
B1 C1 B2 C2

Issue No
3

Sheet
1
of 2

IQ3

SLOT A

SK1
SLOT A

SK3
1
2
3
4
5
4
6
7
8

23 — · — -VE — (A) +VE
22 — · — · — · — ·

CPT

NOT USED

FOR DETAILS OF CPT FUNCTIONS
REFER TO ROTORK PUBLICATION PUB002-041

SK6
1   0V
2   24V   SUPPLY FROM SK5 ON CPT PCB
SK8
1
2

SLOT B

SK2
SLOT B

SK3
1   0V
2   24V   SUPPLY FROM SK14 ON POWER PCB

DC/DC
CONVERTER

AUX
POWER

SK5
1   0V
2   24V   SUPPLY TO SK6 ON CPT PCB

SK4
1   +ve   46   EXTERNAL 17-34VDC CUSTOMER SUPPLY FOR CPT
4   -ve   47

NOTES

1.FUSES:
-PS1 is a self-resetting fuse.
-Refer to publication PUB002-039 for approved fuses FS1 and FS2.
-Actuator rated voltage specified on nameplate. Voltage tolerance +/-10%, applies for rated torque performance; duty cycle is not guaranteed.

2.REMOTE CONTROL:
-For typical remote control circuits refer to:
 -RWS indicated or PUB002-041.
-For DC and AC control, connect –ve/0V to terminal 36.
-(For negative switch / positive common, refer to RWS indicated).
-Control signal threshold voltages:
 -DC: "on" ≥16Vdc / "off" ≤8Vdc, max 60Vdc.
-Control signal duration to be 100ms minimum.
-Maximum current drawn from remote control signals is:
 -8mA at 24Vdc .
-Supply provided on terminals 4 & 5:
 -Intended for remote control.
 -Max external load 5W at 24Vdc

3.INDICATION:
-For typical position, status and alarm indication see PUB002-041.
-"S" contacts are user configurable and are shown in their default setting.
-Refer to PUB002-040 for functions and configuration instructions.
-Monitor Relay indicates actuator availability for remote control (shown "unavailable"). It can be configured to exclude local/remote selection.
-Refer to PUB002-040 for monitored functions and configuration instructions.
-Voltage applied to indication contacts must not exceed 150Vac
-Individual Switch current must not exceed 3.5A inductive, 5A resistive and no more than 8A in total for all 4 contacts.

4.BATTERY:
-Battery maintains local and remote "S" contact indication only.
-Refer to installation manual for approved replacement battery types.

Circuit Diagram Number	Issue No	Sheet
201B1000	3	2 of 2

IQ3