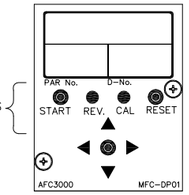
AFC3000 MFC–S024 / S060 SLAVE UNIT WITH MFC–DP01 DISPLAY

(MFC–S060S SHOWN)

OPTIONAL MFC–DP01 DISPLAY UNIT

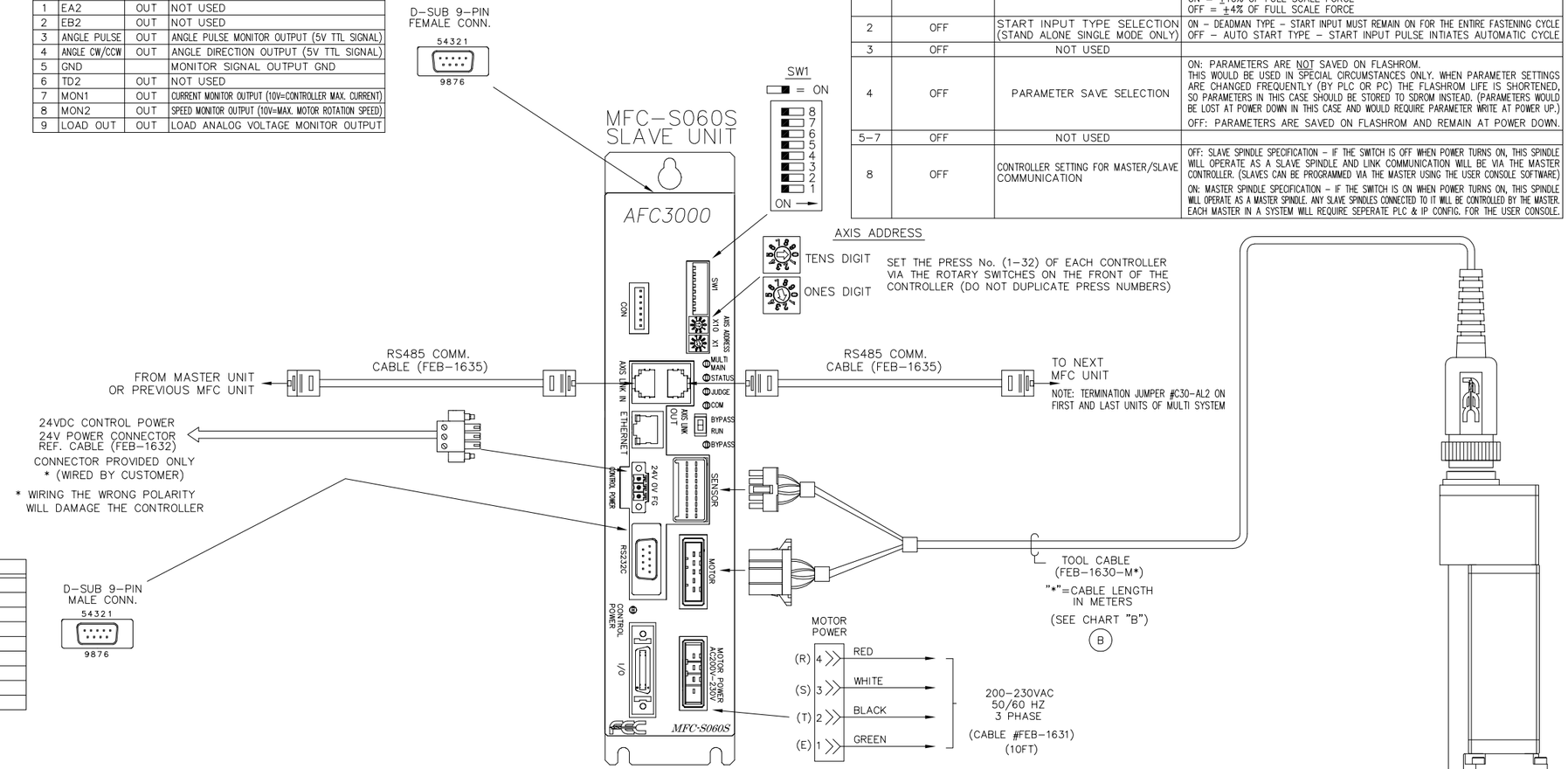


EXTERNAL MONITORING OUTPUT
(LOCATED ON THE TOP OF CONTROLLER)

PIN No.	SIGNAL NAME	IN/OUT	DETAILS
1	EA2	OUT	NOT USED
2	EB2	OUT	NOT USED
3	ANGLE PULSE	OUT	ANGLE PULSE MONITOR OUTPUT (5V TTL SIGNAL)
4	ANGLE CW/CCW	OUT	ANGLE DIRECTION OUTPUT (5V TTL SIGNAL)
5	GND		MONITOR SIGNAL OUTPUT GND
6	TD2	OUT	NOT USED
7	MON1	OUT	CURRENT MONITOR OUTPUT (10V=CONTROLLER MAX. CURRENT)
8	MON2	OUT	SPEED MONITOR OUTPUT (10V=MAX. MOTOR ROTATION SPEED)
9	LOAD OUT	OUT	LOAD ANALOG VOLTAGE MONITOR OUTPUT

SW1 SPECIAL FUNCTION
SWITCH SETTINGS

No.	FACTORY SETTING	FUNCTION	SETTING DETAILS
1	OFF	CAL/ZERO LEVEL ACCEPTANCE SELECTION	SELECTS THE ACCEPTABLE RANGE OF THE CAL AND ZERO LEVEL DURING THE SELF CHECK OF THE TORQUE TRANSDUCER. SET THIS TO ON IF NUISANCE SELF–CHECK ABNORMALS OCCUR FREQUENTLY AT THE START OF THE CYCLE. ON = ±10% OF FULL SCALE FORCE OFF = ±4% OF FULL SCALE FORCE
2	OFF	START INPUT TYPE SELECTION (STAND ALONE SINGLE MODE ONLY)	ON – DEADMAN TYPE – START INPUT MUST REMAIN ON FOR THE ENTIRE FASTENING CYCLE OFF – AUTO START TYPE – START INPUT PULSE INTIATES AUTOMATIC CYCLE
3	OFF	NOT USED	
4	OFF	PARAMETER SAVE SELECTION	ON: PARAMETERS ARE NOT SAVED ON FLASHROM. THIS WOULD BE USED IN SPECIAL CIRCUMSTANCES ONLY. WHEN PARAMETER SETTINGS ARE CHANGED FREQUENTLY (BY PLC OR PC) THE FLASHROM LIFE IS SHORTENED, SO PARAMETERS IN THIS CASE SHOULD BE STORED TO SDROM INSTEAD. (PARAMETERS WOULD BE LOST AT POWER DOWN IN THIS CASE AND WOULD REQUIRE PARAMETER WRITE AT POWER UP.) OFF: PARAMETERS ARE SAVED ON FLASHROM AND REMAIN AT POWER DOWN.
5–7	OFF	NOT USED	
8	OFF	CONTROLLER SETTING FOR MASTER/SLAVE COMMUNICATION	OFF: SLAVE SPINDLE SPECIFICATION – IF THE SWITCH IS OFF WHEN POWER TURNS ON, THIS SPINDLE WILL OPERATE AS A SLAVE SPINDLE AND LINK COMMUNICATION WILL BE VIA THE MASTER CONTROLLER. (SLAVES CAN BE PROGRAMMED VIA THE MASTER USING THE USER CONSOLE SOFTWARE) ON: MASTER SPINDLE SPECIFICATION – IF THE SWITCH IS ON WHEN POWER TURNS ON, THIS SPINDLE WILL OPERATE AS A MASTER SPINDLE. ANY SLAVE SPINDLES CONNECTED TO IT WILL BE CONTROLLED BY THE MASTER. EACH MASTER IN A SYSTEM WILL REQUIRE SEPERATE PLC & IP CONFIG. FOR THE USER CONSOLE.



STANDARD RS232 INTERFACE

PIN No.	SIGNAL NAME	IN/OUT	DETAILS
1	N.C.		NOT USED
2	RXD	IN	RECEIVE DATA
3	TXD	OUT	DATA OUTPUT
4	DTR	OUT	ALWAYS ON OUTPUT
5	GND		SIGNAL GROUND
6	DSR		NOT USED
7	RTS	OUT	ALWAYS ON OUTPUT
8	CTS		NOT USED
9	N.C.		NOT USED

SHIPMENT SETTING
COMM. SPEED – 38400bps
PARITY – NONE
STOP BITS – 1 BIT
DATA BITS – 8 BITS

SW2

= ON

8
7
6
5
4
3
2
1
ON

SW2 SWITCH SETTINGS (LOCATED ON BOTTOM OF UNIT)

No.	FACTORY SETTING	FUNCTION	SETTING DETAILS
1	ON	AUX. E–STOP SIGNAL VALID	ENABLES THE HARDWIRED AUX. E–STOP SIGNAL LOCATED ON THE BOTTOM OF THE CONTROLLER. WHEN SET TO ON, 24VDC POWER MUST BE SUPPLIED TO THE CONNECTOR TO ENABLE THE CONTROLLER.
2	OFF	CONTROLLER RUN/BYPASS SWITCH INVALID	IF SET TO ON, THE RUN/BYPASS SWITCH ON THE FRONT OF THE CONTROLLER CANNOT BE USED TO SWITCH TO BYPASS. THE BYPASS STATE IS ONLY AVAILABLE VIA PLC I/O SIGNAL
3	OFF	STOP SIGNAL ALWAYS ON	IF SET TO ON, THE PLC I/O "STOP" INPUT WILL BE PERMANANTLY ON. TO BE USED FOR TESTING ONLY.
4–8	OFF	NOT USED	

B

CHART "B"
TOOL CABLE & OPTIONAL EXTENSION CABLE

CABLE NAME	CABLE NUMBER
TOOL CABLE	FEB–1630–M*
EXTENSION CABLE	FEB–1630E–M*
HIGH FLEX EXTENSION CABLE	FEB–1630E–**–HF

* – STANDARD LENGTH = 5,7.5,10,12.5,15,20,25,30 METER
**– STANDARD LENGTH = 2,3,5,6,7,7.5,10,12.5,15,20,25,30 METER
TOTAL MAXIMUM LENGTH = 30 METER

AMT	SYM	NAME	PART NUMBER	MFG.

FEC INC — AUTOMATION SYSTEMS — WWW.FEC–USA.COM

DES.BY BBG	DET.BY ACAD	TITLE AFC3000 MFC–S024/MFC–S060 SLAVE UNIT CONNECTION REFERENCE DRAWING
CHK.BY	SAFETY OK	
DATE 06/16	SCALE	
SHEET	SHEETS	DRAWING NO. FEB–1682

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