



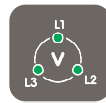
# SCF8C-J

## JOCKEY PUMP PROGRAMABLE – CONFIGURABLE CONTROL PANEL



**SCF8C-J control panels** are **small** user friendly and configurable instruments, useful for automatically operate **Jockey pumps** in any environment.

**SCF8C-J control panels** automatically start and stop **small main jockey pumps up to 7,5kW** depending on the system's demand; protect them by means of the connected and controller-generated alarms, visualize the most relevant values and informations, also manage the communication of the operator and both the contour elements and the remoted manned centre.



### STANDARDS AND TECHNICAL REGULATIONS

#### Standards / Technical regulations

EN 12845 Ed.12845  
UNE 23500 Ed. 2018  
NFPA-20  
UNI 10779 Ed. 2014  
CEA-4001 Sprinkler Systems



EN12845  
NFPA-20



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### MAIN FEATURES

<b>Electric mains and motor</b>	
Mains incoming line voltage	400 Vac / 230 Vac (depending on model)
Mains frequency	50Hz / 60Hz. (depending on model)
Jockey pump motor size	Up to 7,5kW
<b>Design features</b>	
Enclosure	IP65 Protected from total dust ingress (NEMA 4)
	Impact rating: IK10 (except for display)
	Fireproof grade: Fire extinguishes <30s
Display	Transflective: Visible under direct sunlight
Wiring	Halogen free
	In compliance with UNE-EN 50525-3-31 Wires up to 1,5mm <sup>2</sup> : H05Z1-K flame retardant. Power supply: H07Z1-K Fire resistant:(830° C during 90min)
Pump room temperature	20°F to 104°F (-5°C to 40°C) ,Tested up to 140°F (60°C)
Isolation rating between phases	500 Vac
Isolation rating between phases and ground	2.500 Vac
Isolation impedance between phases and ground	2M Ohm between one phase and ground
Earthing system	Does not required neutral connection
Electromagnetic environment	ECM-1
<b>Pump protections</b>	
System alarms	High / Low mains voltage
	High / Low mains frequency
	Wrong phase rotation sense
Jockey pump protection	Overload
	Shor circuit
	Low Cos φ
	Low consumption
	Low water level. (Pump stop optional)
	Jockey pump fail to start Alarm / Low discharge pressure
	low antifreeze fluid level
<b>Start up methods for Jockey pump</b>	
Automatic Mode	Pressure sensor Line 1: Low system pressure. Short and open circuit detection
	Water level sensor: Low priming tank level
	Monometer: System pressure 4-20mA (0-100bar)
Manual Mode	"Start" press button

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### Measuring instruments

<b>General</b>	3 Voltmeter: voltage for every phase L1-L2-L3
	1 pump rotation/phase rotation
	1 Mains frequency meter
	1 Manometer pump discharge pressure ( pressure sensor required with 4-20mA signal)
	1 Ammeter: pump current
<b>Jockey Pump</b>	1 Active power in KW
	1 Power factor (Phi Cos)
<b>Control module</b>	1 Voltmeter: Incoming line voltage

### Other information in display

Jockey pump working hours & minutes	Active demands: pressure switches and sensor
Jockey pump start count	Active alarms
Input & Output. Digital / Analog test on display	Calibration of measuring instruments

### Front panel alarms

<b>Operating modes Jockey pump</b>	Off
	Auto
	Manual
<b>Jockey pump status</b>	Demand
	Start order
<b>Alarm</b>	Running with discharge pressure
<b>Incoming line voltage and phase connections</b>	Yellow led indicator lamp and 80dB buzzer
<b>Buzzer</b>	One led light for each phase / phase rotation
	80dB

### Communications

2 Change-over Voltage-free contacts: 30Vdc - 0.3A

### Languages

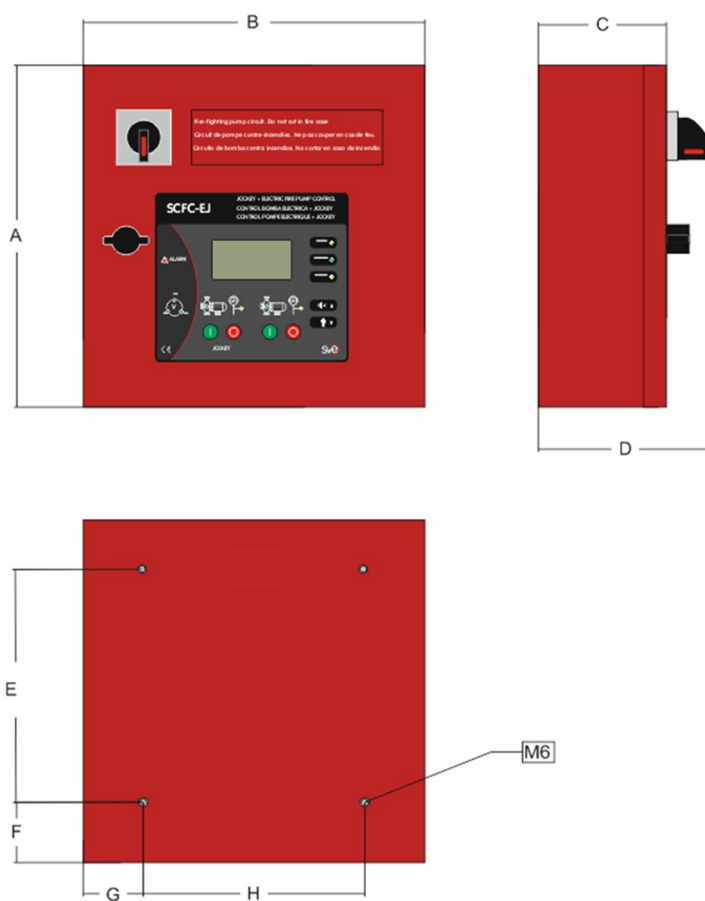
ENGLISH / ESPAÑOL / FRANÇAIS / PORTUGUES / ITALIANO / DEUTSCH / NEDERLANDESE

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## JOCKEY PUMP PROGRAMABLE-CONFIGURABLE CONTROL PANEL



### DIMENSIONS AND FIXINGS



<b>A</b>	300 mm
<b>B</b>	300 mm
<b>C</b>	105 mm
<b>D</b>	145 mm
<b>E</b>	225 mm
<b>F</b>	45 mm
<b>G</b>	28,7 mm
<b>H</b>	242,46 mm

### SCF8C-J CONTROL PANEL COMPONENTS

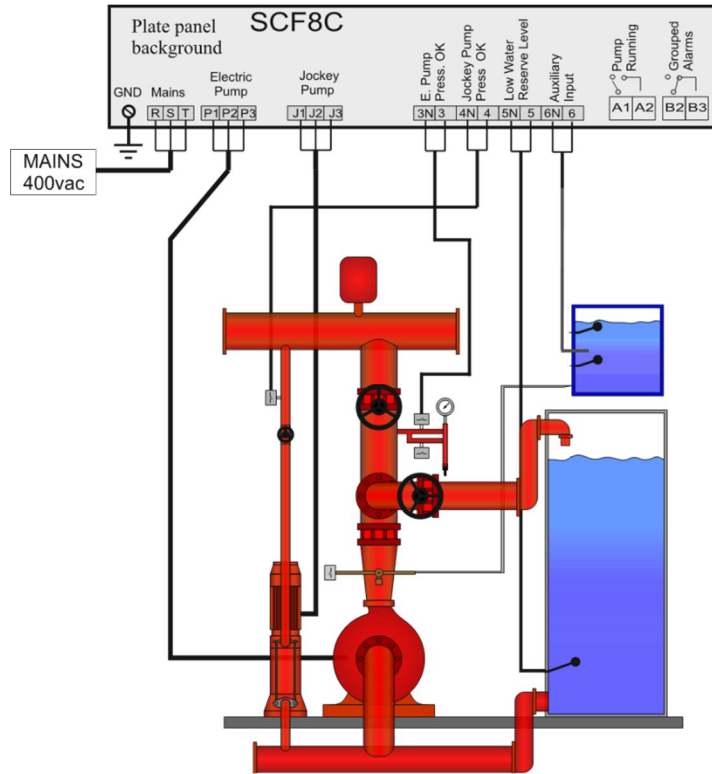
Component description	Nominative
Enclosure SCF8C-J	ENV1
SAF8C-HMI	TE2
SAF8C-IO	TE1
Isolating switch III 400 VAC	S1
Contact breakers:	K1
Electric pump protection fuses	F1,F2,F3

# SCF8C-J

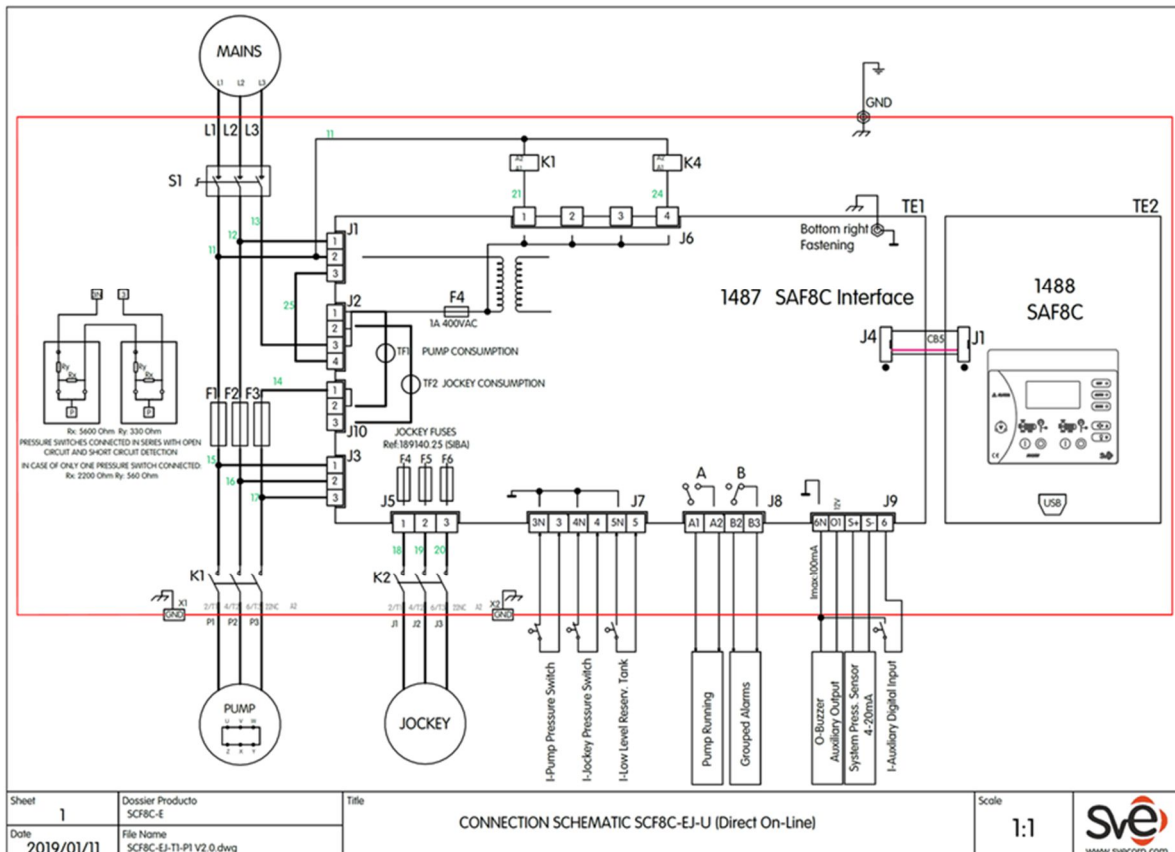
## JOCKEY PUMP PROGRAMABLE-CONFIGURABLE CONTROL PANEL



### EXTERNAL WIRING DIAGRAM



### INTERNAL WIRING DIAGRAM

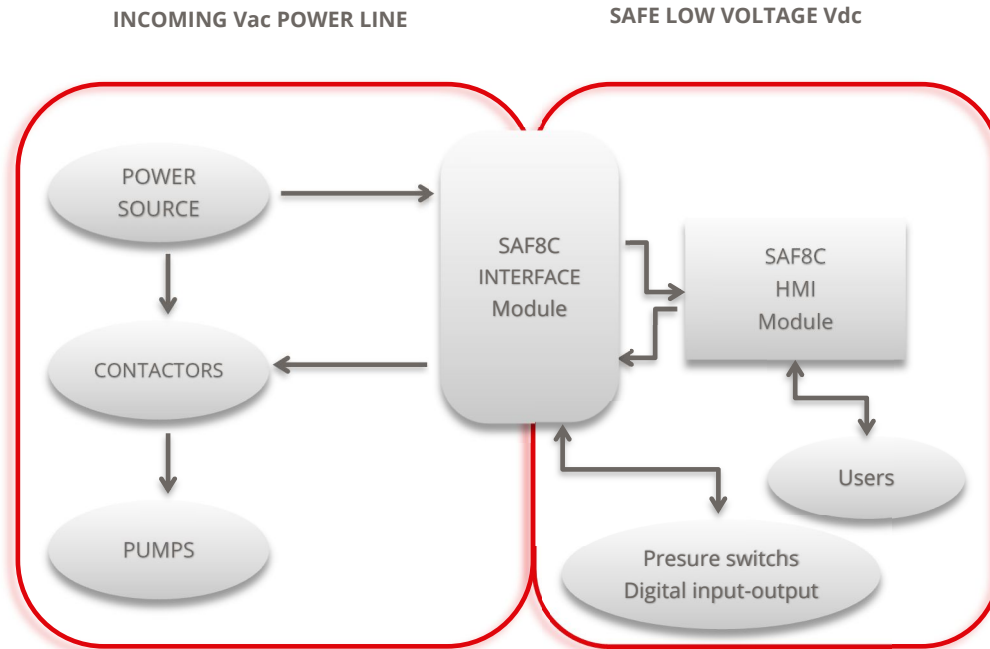


# SCF8C-J

## JOCKEY PUMP PROGRAMABLE-CONFIGURABLE CONTROL PANEL



### BLOCK DIAGRAM



### DISPLAYS

<p><b>System pressures</b></p>	<p style="text-align: center;"><b>SYSTEM PRESSURES</b></p>	<p><b>Incoming electric lines voltage and frequency</b></p>	<p style="text-align: center;"><b>MAINS VOLTAGES</b></p>																																																
<p><b>Last alarms</b></p>	<p style="text-align: center;"><b>LAST ALARMS</b></p> <p style="text-align: center;">NO ACTIVE ALARMS</p> <p>AL01-NORMAL POWER LOSS AL10-LOW PRIMING TANK LEVEL</p> <p style="text-align: right;">[X] [RESET]</p>	<p><b>Jockey pump parameters</b></p>	<p style="text-align: center;"><b>JOCKEY PUMP</b></p> <p>Demands: -----</p> <p>I: 1.9A P: 1.2KW PF: 0.91</p> <p>∏ 00114</p>																																																
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