

AC Frequency Relays

UFR500 and OFR500 series



- Under and over frequency protection
- Adjustable trip setting
- DIN rail or surface mountable

Description

The UFR/OFR range provides accurate and repeatable frequency monitoring of an AC power supply, with a relay output that can be set to operate at user defined limits. These modules are typically used with contactors or circuit breakers, protecting the load from deviations in mains or generator supply frequency.

Each unit features a front facia 'SET Hz.' adjustor and indicating LED. The LED lights to indicate that the relay output is energised, i.e. that the AC frequency is within normal limits.

On **UFR500** units the relay de-energises if the input frequency falls below the 'Set Hz' level. On **OFR500** units the relay de-energises if the input frequency rises above the 'Set Hz' level. On both units, the relay de-energises on total loss of AC supply.

Electrical connection is via shrouded screw terminals. Each module uses a robust polycarbonate case, designed for DIN rail or surface mounting.

Warranty

A two year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and at www.fwmurphy.co.uk/warranty.

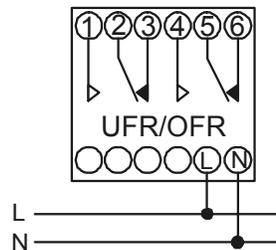
How to order

Stock code	Model, description
76.70.0072	UFR500/D50HZ, 230VAC/40-55Hz
76.70.0184	UFR500/C50HZ, 110VAC/40-55Hz
76.70.0185	UFR500/D60HZ, 230VAC/50-65Hz
76.70.0053	UFR500/C60HZ, 110VAC/50-65Hz
76.70.0167	OFR500/D60HZ, 230VAC/50-65Hz
76.70.0054	OFR500/C60HZ, 110VAC/50-65Hz

Product specification

Input/Power supply:	UFR500	OFR500
supply voltage range	110V units: 100 - 125 VAC 230V units: 200 - 250 VAC	
power consumption	< 5 VA	
Trip point:		
adjustment ranges	40 - 55 Hz. or 50 - 65 Hz.	50 - 65 Hz.
trip point hysteresis	< 0.1 Hz.	
Relay output:		
contact type	DPDT (volt free)	
current rating	5A max @ 250 VAC (resistive)	
operations at rated load	1 x 10 ⁵	
trip time	approx. 100 ms	
General:		
operating temperature	-10 to +55°C	
weight	approx. 360 g	
dimensions (w x h x d)	50 x 75 x 110 mm	

Electrical connection



Relay shown de-energised



FWMurphy

PO Box 470248
Tulsa, Oklahoma 74147, USA
tel: +1 918 317 4100
fax: +1 918 317 4266
email: sales@fwmurphy.com
web: www.fwmurphy.com

CONTROL SYSTEMS AND SERVICES DIVISION
PO Box 1819, Rosenberg, Texas 77471, USA
tel: +1 281 342 0297
fax: +1 281 341 6006
email: sales@fwmurphy.com

MURPHY DE MEXICO S.A. DE C.V.
Blvd. Antonio Rocha Cordero 300, Fracción del Aguaje
San Luis Potosí, S.L.P. México 78384
tel: +52 444 8206264
fax: +52 444 8206336
Villahermosa office tel: +52 993 3162117
email: ventasmex@murphymex.com.mx
web: www.murphymex.com.mx

FRANK W. MURPHY LTD.
Church Rd., Laverstock, Salisbury, SP1 1QZ, UK
tel: +44 1722 410055
fax: +44 1722 410088
email: sales@fwmurphy.co.uk
web: www.fwmurphy.co.uk

MURPHY SWITCH OF CALIFORNIA
41343 12th Street West,
Palmdale, CA 93551-1442, USA
tel: +1 661 272 4700
fax: +1 661 947 7570
email: sales@murphyswitch.com
web: www.murphyswitch.com

MACQUARRIE CORPORATION
1620 Hume Highway,
Campbellfield, Victoria 3061, Australia
tel: +61 3 9358 5555
fax: +61 3 9358 5558
email: murphy@macquarrie.com.au



USA - ISO9001:2000 FM 28221
UK - ISO9001:2000 FM 29422