

Type FAS-125DG

Technical specifications

Meas. voltage: (See supply voltage - AC ranges)
load: 2k Ω /V.

Frequency range: 40...45...65...70Hz.

Inhibit input: Potential-free relay contact.
Open: 5V. Closed: 5mA.

Contact outputs:
synch. pulse output: 1 change-over switch

freq. control outputs: 2 make contacts

volt. control outputs: 2 make contacts

contact ratings: 250V-8A-2000VA (AC).
24V-8A-200W (DC).
(200 x 10³ change-overs at resistive load)

contact voltage: Max. 250V (AC). Max. 150V (DC).

Optocoupler output: System status off = failure.

Temperature: -25...70°C (operating).

Temperature drift: Set points:
max. $\pm 0.2\%$ of full scale per 10°C.

Galvanic separation: Between inputs and outputs:
3250V - 50Hz - 1 min.

Supply voltage (U_n): 57.7-63.5-100-110-127-200-220-230-
240-380-400-415-440-450-660-690VAC
 $\pm 20\%$ (max. 3.5VA)

24-48-110-220V DC -25/+30%
(max. 2W).

Climate: HSE, to DIN 40040.

EMC: To EN 50081-1/2, EN 50082-1/2,
SS4361503 (PL4) and IEC 2553.

Connections: Max. 4 mm² (single-stranded).
Max. 2.5 mm² (multi-stranded).

Materials: All plastic parts are self-extinguishing to
UL94 (V1).

Protection: Case: IP4. Terminals: IP20,
to IEC 529 and EN 60529.

Type approval: The busbar components are approved
by the major classification societies. For
current approvals see www.deif.com or
contact DEIF A/S.

Settings

Setting of	Range
T _N Control pulse length	25...500 ms
X _P Proportional band	$\pm 0.25... \pm 1$ Hz
PHASE Acceptable phase diff.	2.5...22.5°el.
ΔU_{max} Acceptable volt. diff.	$\pm 2... \pm 12\%$ of U _{BB}
SYNC Synchronisation time	0.5...10 s

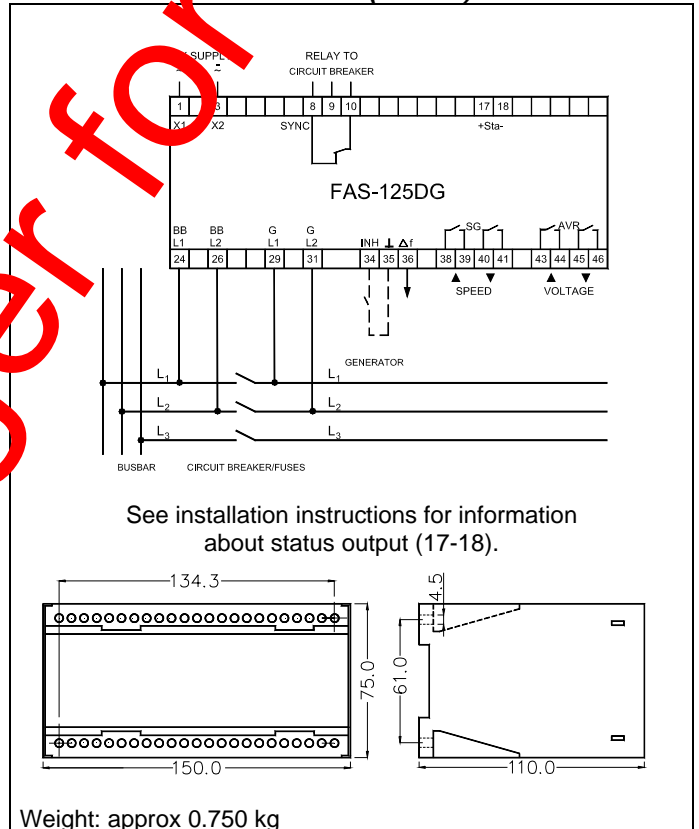
Indication

LED's	Light
U _G Generator voltage	Green, when value is within the acceptable range. Switched off, if outside this range.
U _{BB} Busbar voltage	
Δ Deg Phase difference	
Δ U Volt. difference	Yellow, when relay is activated.
Sync Synchronising	
SG Incr. speed (freq.)	
SG Decr. speed (freq.)	
AVR Increasing voltage	
AVR Decreasing voltage	

The relay is furthermore equipped with a green LED marked "POWER" for indication of power on.

Once the relay has been mounted and adjusted, the transparent front cover may be sealed, preventing unwanted change of the setting.

Connections dimensions (in mm)



Order specifications

Type - Measuring voltage - Supply voltage

Example: FAS-125DG - 380V AC - 24V DC

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



DEIF A/S, Frisenborgvej 33
DK-7800 Skive, Denmark

Tel.: +45 9614 9614, Fax: +45 9614 9615
E-mail: deif@deif.com, URL: www.deif.com

