

Typhoon Series



Typhoon 25

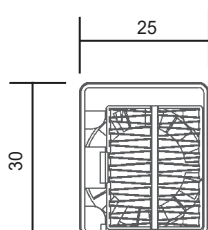
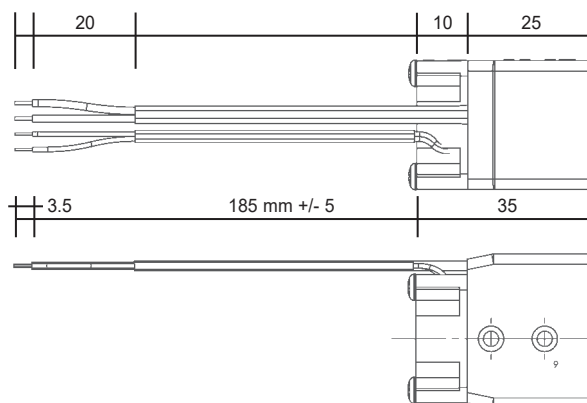
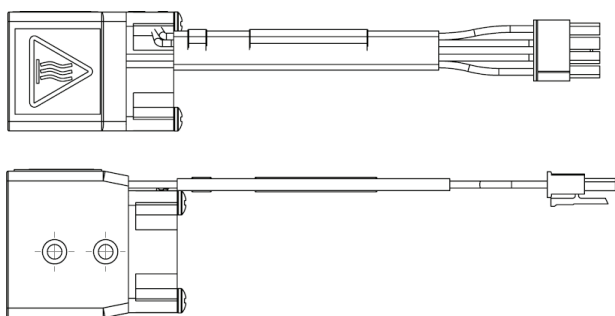
Features

- High power in ultra compact design
- Ultra Lightweight
- High temperature plastic construction
- M3 x 0,5 screw inserts for mounting
- Special fan types available upon request
- Separate connection for element and fan
- Complies RoHS (EU Directive 2002/95/EC)



Type	Typhoon 25 10 W	Typhoon 25 20 W	Typhoon 25 40 W	Typhoon 25 60 W	Typhoon 25 80 W	Typhoon 25 100 W	Typhoon 25 Heaterless
Nominal Power Output at 10°C							
Typical Peak In-rush Current at 24 VAC (Arms)	1,2	2,6	5,5	7,5	10	12,5	without heater
Nominal Input Voltage Heating Element (V)	24	24	24	24	24	24	24 VDC
Nominal Input Voltage Fan (V)	12/24 VDC	12/24 VDC	12/24 VDC	12/24 VDC	12/24 VDC	12/24 VDC	
Max. Body Temperature 25°C Ambient (°C)	40	50	90	TBD	TBD	TBD	
Operating Temperature Range (°C)	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	
Storage Temperature Range (°C)	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	
Fan Lifetime (MTTF at 45°C) (h)	70.000	70.000	70.000	70.000	70.000	70.000	
Fan Volumetric Flow (at 12 VDC) (m³/h)	3,26	3,26	3,26	3,26	3,26	3,26	
Weight (g)	30	30	30	30	30	30	
Dimensions							
Cross Section (mm)	25 x 30	25 x 30	25 x 30	25 x 30	25 x 30	25 x 30	
Length (mm)	37	37	37	37	37	37	
Harness Length (mm)	185	185	185	185	185	185	
Electrical Protection Class	SK III / SELV	SK III / SELV	SK III / SELV	SK III / SELV	SK III / SELV	SK III / SELV	
Recommended fuse (time delay) (A)	2	3,15	4	6,3	8	10	
Connecction	Molex 43645-0400, Terminal (Female) 43030 series						

Note: All data are for unit operated in vertical orientation, with T&T fan as standard.
12V Version on request.



Lead Wire Inputs

1. Heater, 24 V Blue
2. Heater, 24 V Blue
3. Fan, Ground Black
4. Fan, 24VDC Red

DBK's knowledge of thermal management gives us the experience to guide and support you with your technical challenges - we can manage the complete project from concept to full production release.



Typhoon 40

Features

- High power to size ratio
- Stainless steel
35mm DIN-rail mount
- Panel mount 40 x 54mm
aperture (1.6" x 2")
- Built-in finger guard
(flush fitting)
- RoHS Compliant (EU Directive
2002/95/EC)



Detail Fan

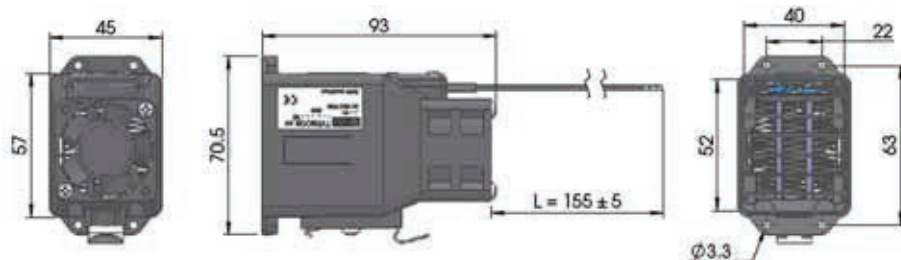


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Typhoon 40		
Nominal Power Output at 25°C, Tolerance	(W)	100W / 150W / 200W / 250W / 300W / 350W
+/-10% Nominal input voltage Heating Element	(V)	115 V / 230 V
Nominal input voltage Fan	(V)	24 VDC
Max. Body Temperature	(25°C ambient)	74°C
Operating Temperature Range	(°C)	-10°C to +70°C
Storage Temperature Range	(°C)	-40°C to +70°C
Fan lifetime (mean time until 30% speed reduction, (Hr) ambient air at 45°C and 66% r.h.)	(h)	70.000
Fan Volumetric Flow	(m³/Hr)	23
Dimensions	Cross Section (mm)	45 x 57
	Length (mm)	93
Weight	(g)	156
Harness Length	(mm)	155
Ingress Protection (EN60529)		IP20
Electrical Protection Class		SK II

Note: All data are for unit operated in vertical orientation, with T&T fan as standard. Approvals pending.

Ordering example: Typhoon 20 200W 240V



Lead Wire Inputs:

1. Heater, blue
2. Heater, blue
3. Fan, Ground, black
4. Fan, +24VDC, red



Typhoon 300

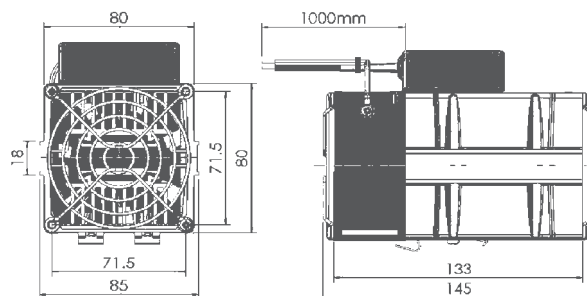
Features

- Robust electrical isolated heating element
- Compact design and easy to install
- Simple electrical connection (fan and heater combined)
- Fixing 35mm DIN-rail mount
- Complies RoHS (EU Directive 2002/95/EC)

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Type		Typhoon 300 230 V	Typhoon 300 115 V
Nominal Power at 25°C Nominal	W	300 - 350	300 - 350
Input Voltage	V	230 VAC	115 VAC
Nominal Input Frequency	Hz	50	60
Operating Temperature Range		-10°C to +70°C	-10°C to +70°C
Storage Temperature Range		-40°C to +70°C	-40°C to +70°C
Fan Lifetime (MTTF at 30°C)	h	606,120	606,120
Fan Volumetric Flow	m ³ /h	40	50
approximate Weight	g	890	890
Dimensions	Cross section mm	85 x 103	85 x 103
	Length mm	145	145
Lead Wires Length	mm	1000	1000
Ingress Protection (EN60529)		IP 20	IP 20
Electrical Protection Class		I	I
Recommended Fuse, Time	A	10	10
Delay Finger Guard at inlet and		Yes	Yes



DBK Group
Industrial Thermal Management

Further Information:
www.itm.dbk-group.com

Typhoon 450

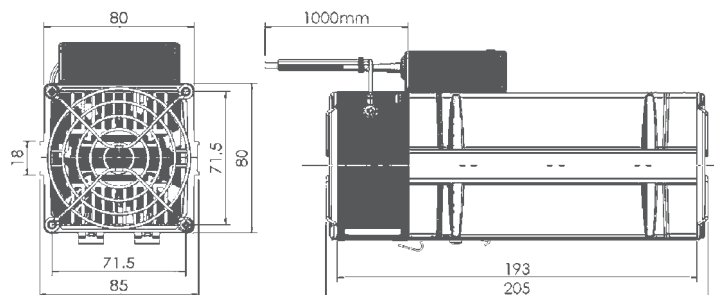
Features

- Robust electrically isolated heating element
- Compact design and easy to install
- Simple electrical connection (fan and heater combined)
- Fixing 35mm DIN-Rail mount
- Complies RoHS (EU Directive 2002/95/EC)



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Type		Typhoon 450 230 V	Typhoon 450 115 V
Nominal Power at 25°C	W	450 - 520	450 - 520
Nominal Input Voltage	V	230 VAC	115 VAC
Nominal Input Frequency	Hz	50	60
Operating Temperature Range		-10°C to +70°C	-10°C to +70°C
Storage Temperature Range		-40°C to +70°C	-40°C to +70°C
Fan Lifetime (MTTF at 30°C)	h	606,120	606,120
Fan Volumetric Flow, approximate	m ³ /h	40	50
Weight	g	1190	1190
Dimensions	Cross section mm	85 x 103	85 x 103
	Length mm	205	205
Lead Wires Length	mm	1000	1000
Ingress Protection (EN60529)		IP 20	IP 20
Electrical Protection Class		I	I
Recommended Fuse, Time	A	13	13
Delay Finger Guard at inlet and outlet		Yes	Yes



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Typhoon 600

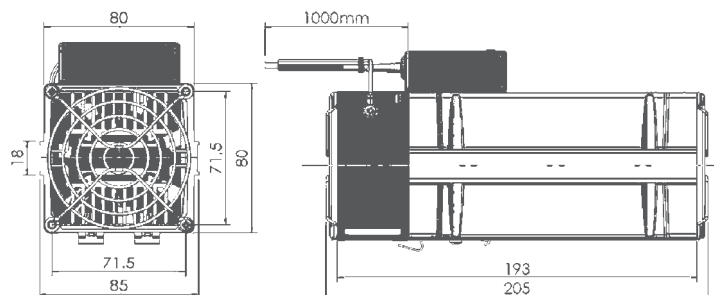
Features

- Robust electrically isolated heating element
- Compact design and easy to install
- Simple electrical connection (fan and heater combined)
- Fixing 35mm DIN-Rail mount
- Complies RoHS (EU Directive 2002/95/EC)

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Type		Typhoon 600 230 V	Typhoon 600 115 V
Nominal Power at 25°C Nominal	W	600 - 700	600 - 700
Input Voltage	V	230 VAC	115 VAC
Nominal Input Frequency	Hz	50	60
Operating Temperature Range		-10°C to +70°C	-10°C to +70°C
Storage Temperature Range		-40°C to +70°C	-40°C to +70°C
Fan Lifetime (MTTF at 30°C)	h	606,120	606,120
Fan Volumetric Flow, approximate	m ³ /h	40	50
Weight	g	1200	1200
Dimensions	Cross section mm	85 x 103	85 x 103
	Length mm	205	205
Lead Wires Length	mm	1000	1000
Ingress Protection (EN60529)		IP 20	IP 20
Electrical Protection Class		I	I
Recommended Fuse, Time	A	16	16
Delay Finger Guard at inlet and		Yes	Yes



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