

# Type code

## 3-digit DC axial fan e.g. 412 FM

Housing dimensions (W x H x D)		
Value	Edge dimensions (W x H)	Installation depth (D)
2	25 x 25 mm	8 mm
<b>4</b>	<b>40 x 40 mm</b>	<b>10 / 20 / 25 / 28 mm</b>
5	50 x 50 mm	15 mm
6	60 x 60 mm	15 / 25 / 32 mm
7	70 x 70 mm	15 mm

Operating voltage	
Value	Nominal voltage
<b>2</b>	<b>12 V</b>
4	24 V
5	5 V
8	48 V

### Options (various versions possible)

A	Analogue speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (Series 44xx F) Constant speed control independent from operating voltage
E	Economy fan with round flange
<b>F</b>	<b>Flat construction / frequency-modulated signal</b>
G	Sleeve bearing
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behaviour, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
<b>M</b>	<b>Medium speed</b>
ML	Between low and medium speed
N	Standard or basic speed (only DC fans)
O	Multi-option speed control input (analogue or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating
S	Speed signal (additional wires for hall signal, obsolete technology)
T	External temperature sensor (NTC behaviour, i.e. thermistor)
TD	Turbo drive (extremely powerful 3-phase motor)
U	Environmentally friendly fan (min. IP 54)
V / VP	VARIOFAN
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number

**4 1 2 F M**

### Motor and housing version

Value	Version
<b>1</b>	<b>4xx fan, 10 / 20 / 25 / 28 mm (D)</b>
1	6xx fan, 15 / 25 / 32 mm (D)
2	25 / 28 mm (D)
3	63x fan, 25 mm (D)
5	2xx fan, 8 mm (D)

## 4-digit DC axial fan, e.g. 4312 GM

Housing dimensions (W x H x D)		
Value	Edge dimensions (W x H)	Installation depth (D)
2	Ø 220 x 200 mm	51 mm
3	92 x 92 mm	25 / 32 / 38 mm
<b>4</b>	<b>119 x 119 mm</b>	<b>25 / 32 / 38 mm</b>
5	127 x 127 mm	38 mm
5	135 x 135 mm	38 mm
5	140 x 140 mm	51 mm
6	Ø 172 mm	51 mm
6	Ø 172 x 150 / 160 mm	51 mm
7	Ø 150 mm	38 / 55 mm
8	80 x 80 mm	25 / 32 / 38 mm

### Connection type and direction of rotation

Value	Connection type	Direction of rotation
<b>1</b>	<b>Wires, length = 310 mm</b>	
5	Wires, length = 310 mm	
6	Plug, 2.8 x 0.8 mm	Counter-clockwise (CCW)
7	Plug, 2.8 x 0.8 mm	Clockwise (CW)
8	Plug, 2.8 x 0.5 mm	Counter-clockwise (CCW)
9	Plug, 2.8 x 0.5 mm	Clockwise (CW)

### Options (various versions possible)

A	Analogue speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (Series 44xx F) Constant speed control independent from operating voltage
DV	Diagonal Venturi fan
E	Economy fan with round flange
F	Flat construction / frequency-modulated signal
<b>G</b>	<b>Sleeve bearing</b>
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behaviour, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
<b>M</b>	<b>Medium speed</b>
ML	Between low and medium speed
N	Standard or basic speed (only DC fans)
O	Multi-option speed control input (analogue or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating
S	Speed signal (additional wires for hall signal, obsolete technology)
T	External temperature sensor (NTC behaviour, i.e. thermistor)
TD	Turbo drive (extremely powerful 3-phase motor)
U	Environmentally friendly fan (min. IP 54)
V / VP	VARIOFAN
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number

**4 3 1 2 G M**

### Motor and housing version

Value	Version
<b>1</b>	<b>38 mm (D)</b>
2	38 mm (D)
<b>3</b>	<b>32 mm (D)</b>
4	25 / 38 / 51 mm (D)

### Operating voltage

Value	Nominal voltage
<b>2</b>	<b>12 V</b>
4	24 V
6	36 V
8	48 V

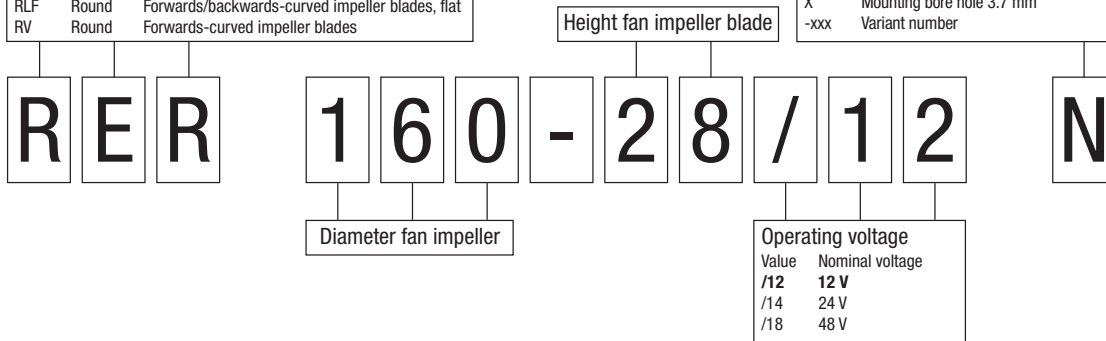
All dimensions in millimetres [mm].

# Type code

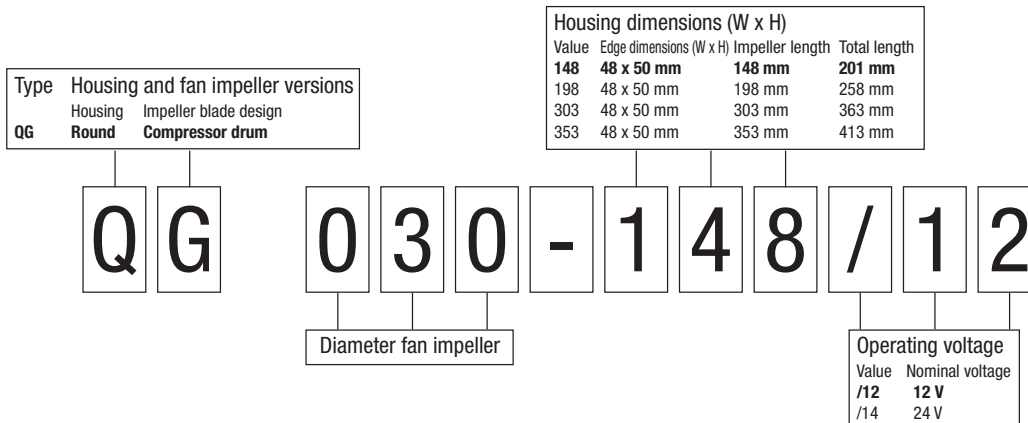
## DC centrifugal fan e.g. RER 160-28/12 N

Type	Housing and fan impeller versions
	Housing Impeller blade design
RE	None Non-curved, no direction of rotation set
REF	None Forwards/backwards-curved impeller blades, flat
<b>RER</b>	<b>None Backwards-curved impeller blades</b>
RET	None Forwards-curved impeller blades
RG	Square Forwards/backwards-curved impeller blades
RL	Round Forwards-curved impeller blades
RLF	Round Forwards/backwards-curved impeller blades, flat
RV	Round Forwards-curved impeller blades

Options (various versions possible)	
A	Analogue speed control input (input voltage: 0...5 / 0...10 V DC)
D	Reinforced flange corners with through-holes (Series 44xx F) Constant speed control independent from operating voltage
E	Economy fan with round flange
F	Flat construction / frequency-modulated signal
G	Sleeve bearing
H	High speed
HH	Further increased speed
H3-H8	Additional further increased speeds (H8 - maximum fan speed)
I	Integrated temperature sensor (NTC behaviour, i.e. thermistor)
J	Jet characteristic / rigid curve
L	Low speed
M	Medium speed
ML	Between low and medium speed
<b>N</b>	<b>Standard or basic speed (only DC fans)</b>
O	Multi-option speed control input (analogue or PWM signal)
P	PWM speed control input (pulse-width modulated signal)
R	Moisture protection coating Circuit board and winding (IP 20), optional stainless steel ball bearing
S	Speed signal (additional wires for hall signal, obsolete technology)
T	External temperature sensor (NTC behaviour, i.e. thermistor)
TD	Turbo drive (extremely powerful 3-phase motor)
U	Environmentally friendly fan (min. IP 54)
V / VP	VARIOFAN
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number



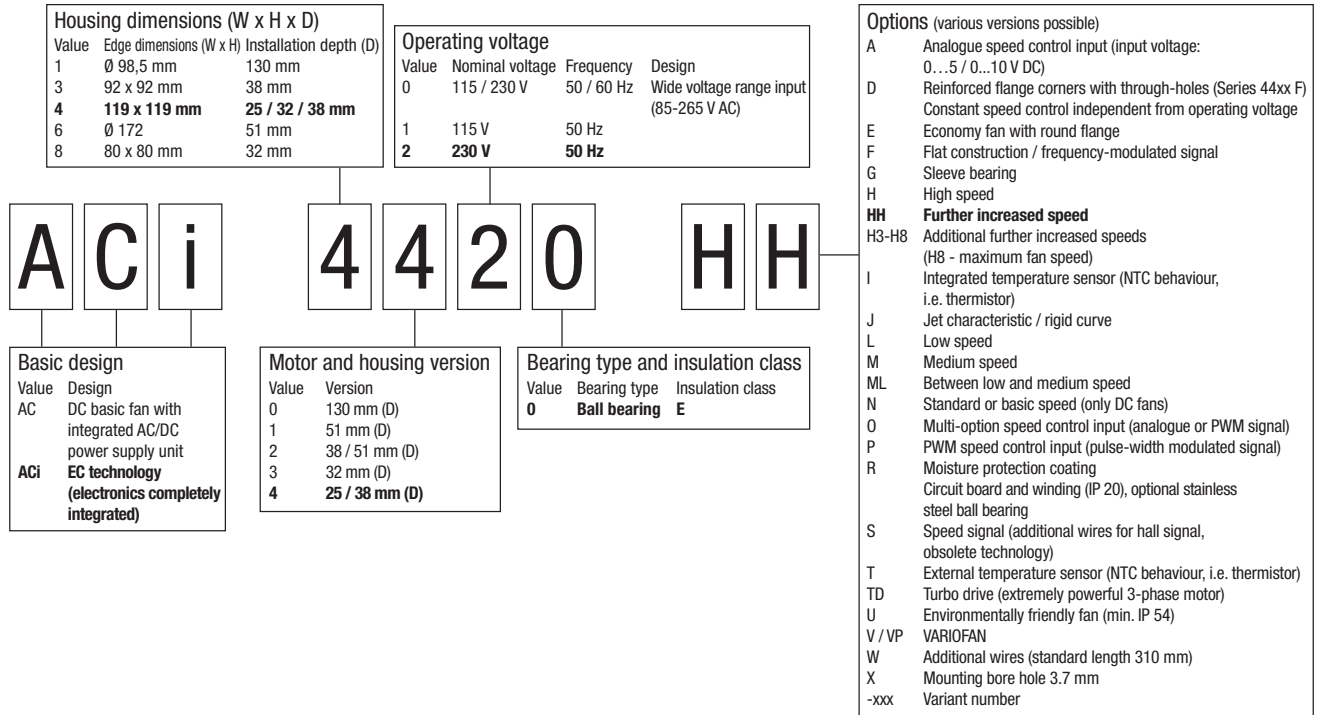
## Tangential blower e.g. QG 030-148/12



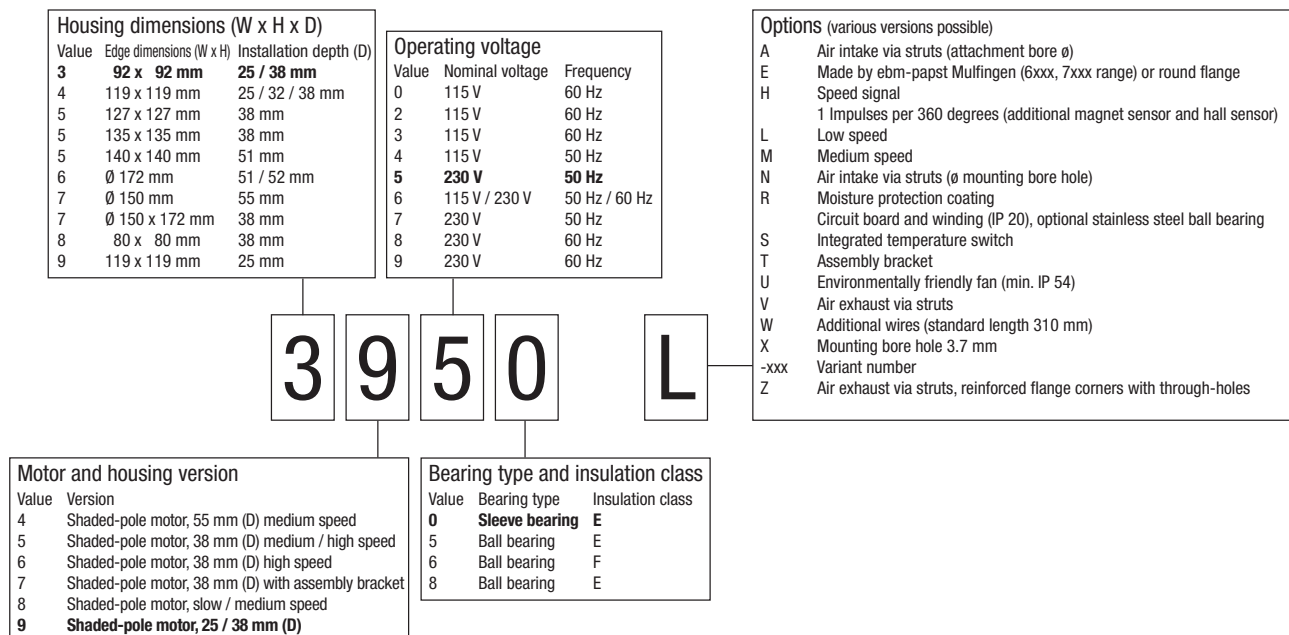
All dimensions in millimetres [mm].

## Type code

## 4-digit GreenTech EC compact fans axial e.g. ACi 4420 HH



## AC axial fan e.g. 3950 L



All dimensions in millimetres [mm].

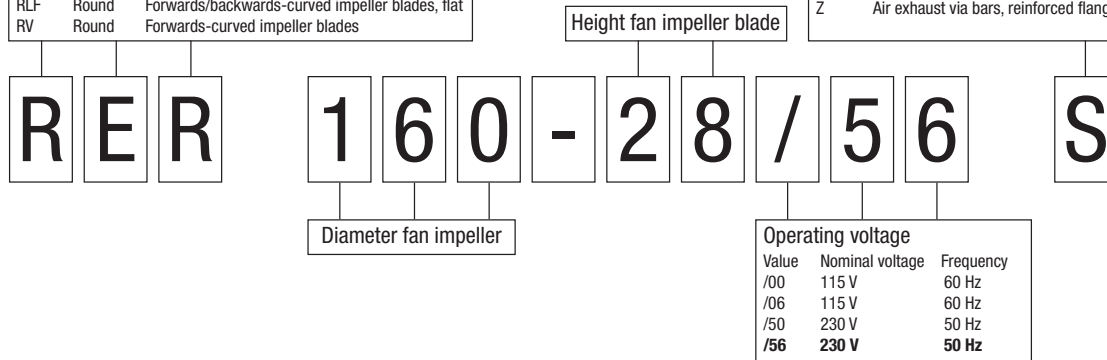
# Type code

## AC centrifugal fan e.g. RER 160-28/56 S

Type	Housing and fan impeller versions
	Housing Impeller blade design
RE	None Non-curved, no direction of rotation set
REF	None Forwards/backwards-curved impeller blades, flat
<b>RER</b>	<b>None Backwards-curved impeller blades</b>
RET	None Forwards-curved impeller blades
RG	Square Forwards/backwards-curved impeller blades
RL	Round Forwards-curved impeller blades
RLF	Round Forwards/backwards-curved impeller blades, flat
RV	Round Forwards-curved impeller blades

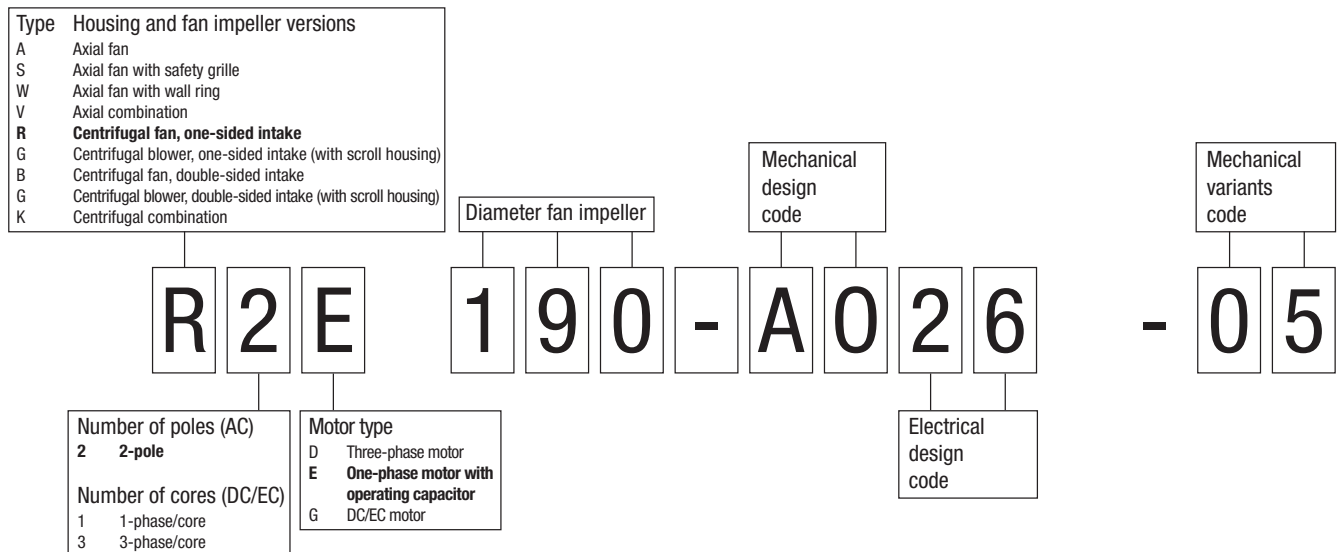
### Options (various versions possible)

A	Intake via bars
E	Made by ebm-papst Mulfingen (6xxx, 7xxx range) or round flange
H	Speed signal 1 Impulses per 360 degrees (additional magnet sensor and hall sensor)
L	Low speed
M	Medium speed
N	Fan intake via bars (0 mounting bore hole)
R	Moisture protection coating Circuit board and winding (IP 20), optional stainless steel ball bearing
<b>S</b>	<b>Integrated temperature switch</b>
T	Assembly bracket
U	Environmentally friendly fan (min. IP 54)
V	Air exhaust via bars
W	Additional wires (standard length 310 mm)
X	Mounting bore hole 3.7 mm
-xxx	Variant number
Z	Air exhaust via bars, reinforced flange joints with through-holes



## DC centrifugal fan e.g. R2E 190-A026 - 05

Note: This type code specifies fans from ebm-papst Mulfingen and can be used to clearly identify and order them:



All dimensions in millimetres [mm].