

Declaration of Conformity

Manufacturer: **CAREL Industries S.p.A.**

Via dell'Industria, 11 35020 Brugine (PD) Italy

ir33 electronic controller for stand-alone refrigeration units

Code	Description
IRaabcdefgh	Ir33 electronic controller
IXaabcdefgh	Ir33 Plus electronic controller
aa:	33 = Carel version, letters= customized version
b:	M = 0 relais, S = 1 compressor relay, Y = 2 relais: compressor-defrost
	F = 3 relais: compressor-defrost-fan (no for options A,M,L,T e V,X,Y,Z)
	C = 4 relais: compressor-defrost-fan-aux1 (no for options A,M,L,T)
c:	0 = NTC, 7 = NTC/PTC
d:	0 = 12 Vac, L = 12/24 Vac, A = 115 Vac (transformer) M,S,Y,F Mod., E = 230 Vac (transformer) M,S,Y,F Mod., H = 115/230 Vac (switching) S+Aux,Y,F,C Mod.
e:	N = no options, A = auxiliary relay, R = infrared, C = clock, B = clock+infrared, M = infrared+alarm relay, L = clock+alarm relay, T = infrared+ clock +alarm relay For E,A power supply S,Y models: P = 16A, Q = 16A+infrared, S = 16A+clock, U =16A+infrared+clock, V =16A+ aux relay, X = 16A+aux. relay+infrared, Y = 16A+aux. relay+ clock, Z = 16A+aux. relay+clock+infrared For H,0,L power supply models: H = 2HP, I = 2HP+infrared, E = 2HP+clock, F = 2HP+infrared+clock, G = 2HP+aux relays, K = 2 HP+aux relays+infrared, O = 2HP+aux relays+clock, W = 2HP+aux relays+clock+infrared
f:	0 = screw terminal blocks 180° (power supply 0,L,H at 90°) 1 = faston 90°+removable terminal blocks (probes) (no power supply 0,L,H) 2 = removable terminal blocks with remov. part at 90° (power supply 0,L,H and models Y (options A,M,L,T), F e C (options N,R,C,B) with remov. part at 180°) 3 = 90° faston+screw terminal blocks 180° (probes) (no power supply 0,L,H) 5 = screw terminal blocks 180°vertical cable (no power supply 0,L,H)
g:	0 = standard, x = letter= customized version
h:	blank = single package, 1 = multiple package 20 pcs., 5 = multiple package 50 pcs, K = kit

We hereby declares that all the above indicated products comply with the requirements of standard **EN 60079-15:2005**, as required by the standards **EN 60335-2-40/A1:2006-04** and **EN 60335-2-89:2010** in case of using hydrocarbon refrigeration gases (e.g. R290 Propane and R600a Isobutane). Compliance is based on tests performed on following electromechanical relays, used on listed above products:

Code: 202H-1AH-F-C-12VDC - Manufacturer: SONG CHUAN PRECISION CO. LTD (5A relay)
Code: JV 12S-KT - Manufacturer: FUJITSU-TAKAMISAWA (5A relay)
Code: HF32FA/012-HSL1-610 - Manufacturer: HONGFA (5A relay)
Code: G6RL-1- 12VDC (SP) - Manufacturer: OMRON (8A relay)
Code: HF118F-012-1ZS1T - Manufacturer: XIAMEN HONGFA ELECTROACOUSTIC (8A relay)
Code: RY211012 - Manufacturer: TYCO ELECTRONICS AUSTRIA GMBH (8A relay)
Code: JS12-K - Manufacturer: FUJITSU (8A relay)
Code: RT314012 - Manufacturer: TYCO ELECTRONICS AUSTRIA GMBH (16A relay)
Code: HF115-012-1ZS3B - Manufacturer: XIAMEN HONGFA ELECTROACOUSTIC (16A relay)
Code: FTR K1AK012T - Manufacturer: FUJITSU (16A relay)
Code: G2RL-1A-E 12VDC - Manufacturer: OMRON (16A relay)
Code: 888H-1A-H-F-C-IR - Manufacturer: SONG CHUAN PRECISION CO. LTD (16A relay)

Such relays have passed successfully all the type tests for the presumption of conformity to **ATEX Directive 94/9/EC** for Group II, Category 3G, as component with type of protection Ex nC "Enclosed-break device" and "sealed device" in accordance with harmonized standard EN 60079-15:2005 - Type of protection **Ex nC IIC T4; Amb. T - 10 °C + 60 °C**.

Brugine, 7th January 2014

CAREL INDUSTRIES S.p.A.
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