Contactor, 3 pole, 380 V 400 V 4 kW, 1 N/O, 380 V 50 Hz, 440 V 60 Hz, AC operation, Screw terminals



Part no. DILM9-10(380V50HZ,440V60HZ) 276691

Product name	Eaton Moeller® series DILM contactor
Part no.	DILM9-10(380V50HZ,440V60HZ)
EAN	4015082766917
Product Length/Depth	75 millimetre
Product height	68 millimetre
Product width	45 millimetre
Product weight	0.24 kilogram
Certifications	IEC/EN 60947
	UL Category Control No.: NLDX CSA-C22.2 No. 60947-4-1-14 CE UL IEC/EN 60947-4-1 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 CSA VDE 0660 UL File No.: E29096 CSA File No.: 012528
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Globally Marketable	Yes
Application	Contactors for Motors
Degree of protection	IP20
Frame size	FS1
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	9000 mechanical Operations/h (AC operated)
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Resistance per pole	2.5
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces
Voltage type	AC
Shock resistance	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
Altitude	Max. 2000 m
Ambient operating temperature - min	-25 °C

Ambient operating temperature - max	0° C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
Simulate probling	Damp heat, constant, to IEC 60068-2-78
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2,5) mm ² 2 x (0.75 - 2.5) mm ²
Terminal capacity (solid)	2 x (0.75 - 2.5) mm ²
Terminal conscitu (colid/atronded ANAC)	1 x (0.75 - 4) mm ²
Terminal capacity (solid/stranded AWG)	Single 18 - 10, double 18 - 14
Stripping length (main cable) Stripping length (control circuit cable)	10 mm
Stripping length (control circuit cable) Screw size	10 mm M3.5, Terminal screw
Screwdriver size	M3.5, Terminal screw 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
OGIGWUIIVGI SIZG	u.8 x 5.5/1 x 6 mm, Terminal Screw, Standard Screwdriver 2, Terminal Screw, Pozidriv Screwdriver
Tightening torque	1.2 Nm, Screw terminals
Rated breaking capacity at 220/230 V	90 A
Rated breaking capacity at 380/400 V	90 A
Rated breaking capacity at 500 V	70 A
Rated breaking capacity at 660/690 V	50 A
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	22 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	9 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	9 A
Rated operational current (Ie) at AC-3, 440 V	9 A
Rated operational current (Ie) at AC-3, 500 V	7 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	5 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-4, 440 V	6 A
Rated operational current (Ie) at AC-4, 500 V	5 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	4.5 A
Rated operational current (le) at DC-1, 60 V	20 A
Rated operational current (le) at DC-1, 110 V	20 A
Rated operational current (le) at DC-1, 220 V Rated insulation voltage (Ui)	15 A 690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	112 A
Rated operational power at AC-3, 240 V, 50 Hz	3 kW
Rated operational power at AC-3, 240 V, 50 Hz	4 kW
Rated operational power at AC-3, 300/400 V, 30 Hz	5.5 kW
Rated operational power at AC-3, 440 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	4.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	4.5 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	1.5 kW
Rated operational power at AC-4, 240 V, 50 Hz	1.6 kW
Rated operational power at AC-4, 415 V, 50 Hz	2.8 kW
Rated operational power at AC-4, 440 V, 50 Hz	3 kW
Rated operational power at AC-4, 500 V, 50 Hz	2.8 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	3.6 kW
Rated operational voltage (Ue) at AC - max	690 V

Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 25 A, Class RK5/ 20 A Class J, max. Fuse, SCCR (UL/CSA) 16 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 25 A, Class RK5/20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	35 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	16 A gG/gL
Conventional thermal current ith (1-pole, enclosed)	45 A
Conventional thermal current ith (3-pole, enclosed)	18 A
Conventional thermal current ith at 55°C (3-pole, open)	21 A
Conventional thermal current ith at 60°C (3-pole, open)	20 A
Conventional thermal current ith of main contacts (1-pole, open)	50 A
Switching capacity (main contacts, general use)	20 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA)
Switching Capacity (auxiliary Contacts, prior unity)	P300, DC operated (UL/CSA)
Arcing time	10 ms
Drop-out voltage	AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Rated control supply voltage (Us) at AC, 50 Hz - min	380 V
Rated control supply voltage (Us) at AC, 50 Hz - max	380 V
Rated control supply voltage (Us) at AC, 60 Hz - min	440 V
Rated control supply voltage (Us) at AC, 60 Hz - max	440 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Switching time (AC operated, make contacts, closing delay) - min	15 ms
Switching time (AC operated, make contacts, closing delay) - max	21 ms
Switching time (AC operated, make contacts, opening delay) - min	9 ms
Switching time (AC operated, make contacts, opening delay) - max	18 ms
Assigned meter power at 115/120 V 60 Hz 1 -h	0.E.U.D
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP 3 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
Connection	Screw terminals
Connection to SmartWire-DT	No
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	0

Special purpose rating of Selbast electrical discharge lamps Special purpose rating of Perspective Action (USA) Special purpose rating of Indigential Selbast (SSA) Special purpose rating of Indigential Selbast (SS	Number of auxiliary contacts (normally open contacts)	1
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73 A. 200 V OR 12-3h, UUCSA) 2 HP 2-90 V OR 12-3h, UUCSA) 3 A. 200 V OR 12-3h, UUCSA) 3 A. 200 V OR 12-3h, UUCSA) 3 A. 400 V OR 12-3h, UUCSA) 4 A. 400 V OR 12-3h, UUCSA) 4 A. 400 V OR 12-3h, UUCSA) 5 A. 1R. 400 V OR 12-3h, UUCSA) 5 A. 400 V OR 12-3h, UUCSA) 5 A. 400 V OR 12-3h, UUCSA) 6 A. 1R. 400 V OR 12-3h, UUCSA) 6 A. 400 V OR 12-3h, UUCSA	Special purpose rating of definite purpose rating	
86 A, LRA 460 V 60 Hz Sphases, (CSA) 86 A, LRA 460 V 60 Hz Sphases, (CSA) 86 A, LRA 460 V 60 Hz Sphases, (CSA) 86 A, LRA 460 V 60 Hz Sphases, (CSA) 86 A, LRA 460 V 60 Hz Sphases, 277 V 60 Hz Iphase, IUUCSA) 18 A, 460 V 60 Hz Sphases, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60 Hz Iphase, IUUCSA 18 A, 460 V 60 Hz Sphase, 277 V 60	Special purpose rating of elevator control	7.8 Å, 200 V 60 Hz 3-ph, (UL/CSA) 2 HP, 240 V 60 Hz 3-ph, (UL/CSA) 6.8 Å, 240 V 60 Hz 3-ph, (UL/CSA) 5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 6.1 Å, 600 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of tungsten incandescent lamps 18 A, 480 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 14 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 14 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 14 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 15 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 16 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 17 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A, 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 19 A 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 80 Hz 3phase, 277 V 60 Hz 1phase, (ULCSA) 18 A 800 V 800	Special purpose rating of refrigeration control (CSA only)	60 A, LRA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA)
Equipment heat dissipation, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Bett dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In) State heat dissipation, per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In) State heat dissipation, non-current-dependent Pvis 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Meets the product	Special purpose rating of resistance air heating	
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Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs 1.4 W 10.2.2 Corrosion resistance Meets the product standard's requirements. 102.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to normal heat 102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 102.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 102.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.5 Inscriptions Meets the product standard's requirements. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.5 Internal electrical circuits and components Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9 2 Power-frequency electric strength Is the panel builder's responsibility. 10.9 3 Impulse withstand voltage Is the panel builder's responsibility. 10.9 4 Testing of enclosures made of insulating material 10.1 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. 10.8 Connections for external conductors Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material 10.11 Short-circuit rating In the panel builder's responsibility. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	Heat dissipation per pole, current-dependent Pvid	0.2 W
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10.2.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Is the panel builder's responsibility. 10.9 Is the panel builder's responsibility. 10.9 The panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Meets the product standard's requirements. 10.2 Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Is the panel builder's responsibility. 10.9 Is the panel builder's responsibility. 10.9 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.15 Meets the product standard's requirements. 10.16 Meets the product standard's requirements. 10.17 Meets the product standard's requirements. 10.18 Meets the product standard's requirements. 10.19 Does not apply, since the entire switchgear needs to be evaluated. 10.19 Does not apply, since the entire switchgear ineeds to be evaluated. 10.19 Does not apply, since the entire switchgear ineeds to be evaluated. 10.19 Does not apply, since the entire switchgear needs to be evaluated. 10.19 Does not apply, since the entire switchgear needs to be evaluated. 10.19 Does not apply, since the entire switchgear needs to be evaluated. 10.19 Does not apply, since the entire	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.24 Resistance to ultra-violet (UV) radiation 10.25 Lifting 10.26 Mechanical impact 10.27 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Is the panel builder's responsibility. In the panel builder's responsibility. The specifications for the switchgear must be observed. In the device meets the requirements, provided the information in the instruction.	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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10.10 Temperature rise The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])				
Rated control supply voltage Us at AC 50HZ	V		380 - 380	
Rated control supply voltage Us at AC 60HZ	V		440 - 440	
Rated control supply voltage Us at DC	V		0 - 0	

Voltage type for actuating		AC
Rated operation current le at AC-1, 400 V	Α	22
Rated operation current le at AC-3, 400 V	Α	9
Rated operation power at AC-3, 400 V	kW	4
Rated operation current le at AC-4, 400 V	Α	6
Rated operation power at AC-4, 400 V	kW	2.5
Rated operation power NEMA	kW	3.7
Modular version		No
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of normally closed contacts as main contact		0
Number of normally open contacts as main contact		3