

ELEC	Electrical engineering					
g-shift	3ST0V ₉₀	3ST0I ₉₃	3ST0Z ₉₆	abc→012	012→abc	3R↔3P
f-shift	3RCLV ₉₀	3RCLI ₉₃	3RCLZ ₉₆	Δ → Y	Y → Δ	MULTSTK
unshifted	V=I×Z	I=V÷Z	Z=V÷I	X → BAL	3SWAP	3DROP
Page 2	F1	F2	F3	F4	F5	F6

Prev menu https://47calc.com/doc/R47/Menus/R47v0_Menu_ELEC_page_1.pdf

Next menu https://47calc.com/doc/R47/Menus/R47v0_Menu_Ellipt_page_1.pdf

Ref 1 https://47calc.com/doc/Application%20Notes/AN0006_C47_R47_JM_ELEC.pdf

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
Menu p2	ELEC	MENU	Electrical engineering	Electrical engineering functions and custom programs ; Ref : https://47calc.com/doc/Application%20Notes/AN0006_C47_R47_JM_ELEC.pdf	Electrical engineering		ELEC	
F1	V=I×Z	Function (triadic)	Triple V = I × Z	X = R93 × R96 ; Y = R94 × R97 ; Z = R95 × R98	Electrical engineering		V=I×Z	
F2	I=V÷Z	Function (triadic)	Triple I = V ÷ Z	X = R90 / R96 ; Y = R91 / R97 ; Z = R92 / R98	Electrical engineering		I=V÷Z	
F3	Z=V÷I	Function (triadic)	Triple Z = V ÷ I	X = R90 / R93 ; Y = R91 / R94 ; Z = R92 / R95	Electrical engineering		Z=V÷I	
F4	X → BAL	Function (monadic)	X Balanced	Create balanced 3 phase quantities by pushing onto stack X × a, then X × a × a	Electrical engineering		X → BAL	
F5	3SWAP	Command	Swap X, Y, Z and T, A, B	Swap X, Y, Z and T, A, B	Stack		3SWAP	
F6	3DROP	Command	Drop X, Y, Z	Drop X, Y, Z	Stack		3DROP	
ff1	3RCLV ₉₀	Command	Recall triple V	Push R90, R91, R92 to X, Y, Z ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R90, R91, R92, interpreted as FMA (fused multiply-add) of R90 × R91 + R92 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R90, mapped to R90, R91, R92	Electrical engineering		3RCLV ₉₀	
ff2	3RCLI ₉₃	Command	Recall triple I	Push R93, R94, R95 to X, Y, Z ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R93, R94, R95, interpreted as FMA (fused multiply-add) of R93 × R94 + R95 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R93, mapped to R93, R94, R95	Electrical engineering		3RCLI ₉₃	
ff3	3RCLZ ₉₆	Command	Recall triple Z	Push R96, R97, R98 to X, Y, Z ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R96, R97, R98, interpreted as FMA (fused multiply-add) of R96 × R97 + R98 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R96, mapped to R96, R97, R98	Electrical engineering		3RCLZ ₉₆	
ff4	Δ → Y	Function (triadic)	Delta to Star (Wye)	Convert star connected impedances X, Y, Z to delta impedances X, Y, Z ; TI : a : ; b : ; c :	Electrical engineering		Δ → Y	
ff5	Y → Δ	Function (triadic)	Star (Wye) to Delta	Convert delta connected impedances X, Y, Z to star impedances X, Y, Z ; TI : ca : ; ab : ; bc :	Electrical engineering		Y → Δ	
ff6	MULTSTK	MENU	Multi-stack commands	Multi-stack commands	Stack		MULTSTK	
gf1	3STOV ₉₀	Command	Store triple V	Copy X, Y, Z to R90, R91, R92 ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R90, R91, R92, interpreted as FMA (fused multiply-add) of R90 × R91 + R92 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R90, mapped to R90, R91, R92	Electrical engineering		3STOV ₉₀	
gf2	3STOI ₉₃	Command	Store triple I	Copy X, Y, Z to R93, R94, R95 ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R93, R94, R95, interpreted as FMA (fused multiply-add) of R93 × R94 + R95 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R93, mapped to R93, R94, R95	Electrical engineering		3STOI ₉₃	
gf3	3STOZ ₉₆	Command	Store triple Z	Copy X, Y, Z to R96, R97, R98 ; used in menu ELEC and as dedicated registers for Virtual compound data types, as a "Triplet" stored in R96, R97, R98, interpreted as FMA (fused multiply-add) of R96 × R97 + R98 when used by extended accuracy functions in menu XFCNS ; split screen may show "No error" ; Info : R96, mapped to R96, R97, R98	Electrical engineering		3STOZ ₉₆	
gf4	abc→012	Function (triadic)	Convert to symmetrical components	Convert 3-phase a, b, c in Z, Y, X to symmetrical components a0, a1, a2 in Z, Y, X	Electrical engineering		AtoSYM	
gf5	012→abc	Function (triadic)	Convert from symmetrical components	Convert symmetrical components a0, a1, a2 in Z, Y, X to 3-phase a, b, c in Z, Y, X	Electrical engineering		SYMtoA	
gf6	3R↔3P	Function (triadic)	Convert triple RECT ↔ POLAR	Convert Real Z, Y, X to Complex Z, Y, X (according to flag POLAR) and vice versa ; Info : Three-phase rectangular-polar conversion	Electrical engineering		3R↔3P	

p2	ELEC	Link
F1	$V=I \times Z$	
F2	$I=V \div Z$	
F3	$Z=V \div I$	
F4	$X \rightarrow \text{BAL}$	
F5	3SWAP	
F6	3DROP	
fF1	3RCLV ₉₀	
fF2	3RCLI ₉₃	
fF3	3RCLZ ₉₆	
fF4	$\Delta \rightarrow Y$	
fF5	$Y \rightarrow \Delta$	
fF6	MULTSTK	https://47calc.com/doc/R47/Menus/R47v0_Menu_MULTSTK_page_1.pdf
gF1	3STOV ₉₀	
gF2	3STOI ₉₃	
gF3	3STOZ ₉₆	
gF4	$abc \rightarrow 012$	
gF5	$012 \rightarrow abc$	
gF6	$3R \leftrightarrow 3P$	